

TM 9-1005-223-20

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL
INCLUDING BASIC ISSUE ITEMS LIST AND
ORGANIZATIONAL REPAIR PARTS AND
SPECIAL TOOLS LIST

RIFLES, 7.62-MM, M14 AND M14A1,
AND BIPOD, RIFLE, M2

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TECHNICAL MANUAL

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HEADQUARTERS,
DEPARTMENT OF THE ARMY
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RIFLES, 7.62-MM, M14 AND M14A1 AND BIPOD, RIFLE, M2

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* This manual supersedes TM 9-1005-223-12, 8 February 1965, including C1, 1 October 1965, and C2, 23 March 1967.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope.

This manual contains instructions for the operation and organizational maintenance of 7.62-MM Rifles M14, M14A1, and Rifle Bipod M2 as prescribed by the MAC.

1-2. Forms and Records.

a. *General.* DA Forms and procedures used for equipment maintenance will be only those prescribed in TM 38-750, Army Equipment Record Procedures.

b. *Recommendations for Maintenance Manual Improvements.* Report of errors, omissions and recommendations by the individual user is encouraged. Report should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to:

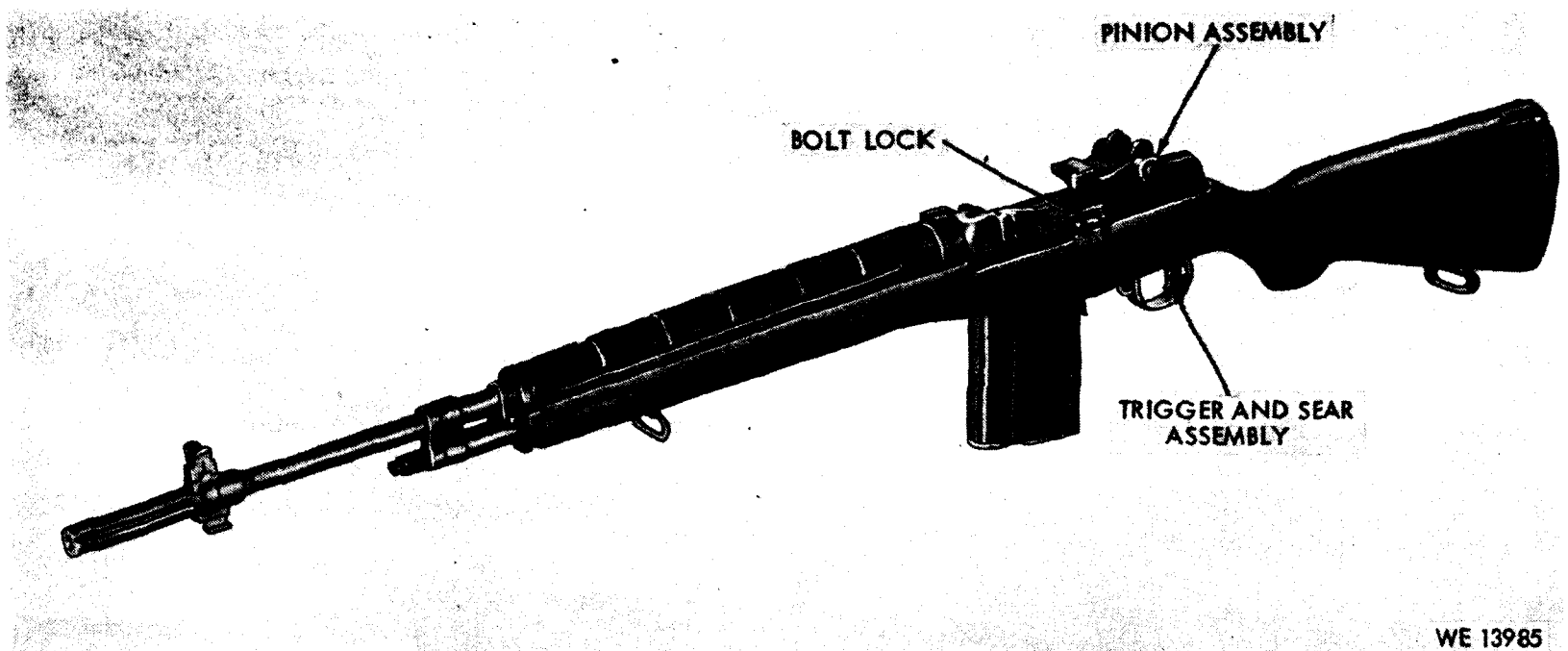
Commanding General
U.S. Army Weapons Command
ATTN: AMSWE-SMM-P
Rock Island Arsenal
Rock Island, Illinois 61202

Section II. DESCRIPTION AND DATA

1-3. Description.

a. *Rifle M14 (figs. 1-1 through 1-7).* The M14 Rifle is a light weight, air-cooled, gas operated, magazine fed, shoulder weapon, de-

signed primarily for semiautomatic or full automatic fire at the cyclic rate of 750 rounds per minute.



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Figure 1.1. 7.62-MM Rifle M14 and controls - left front view.

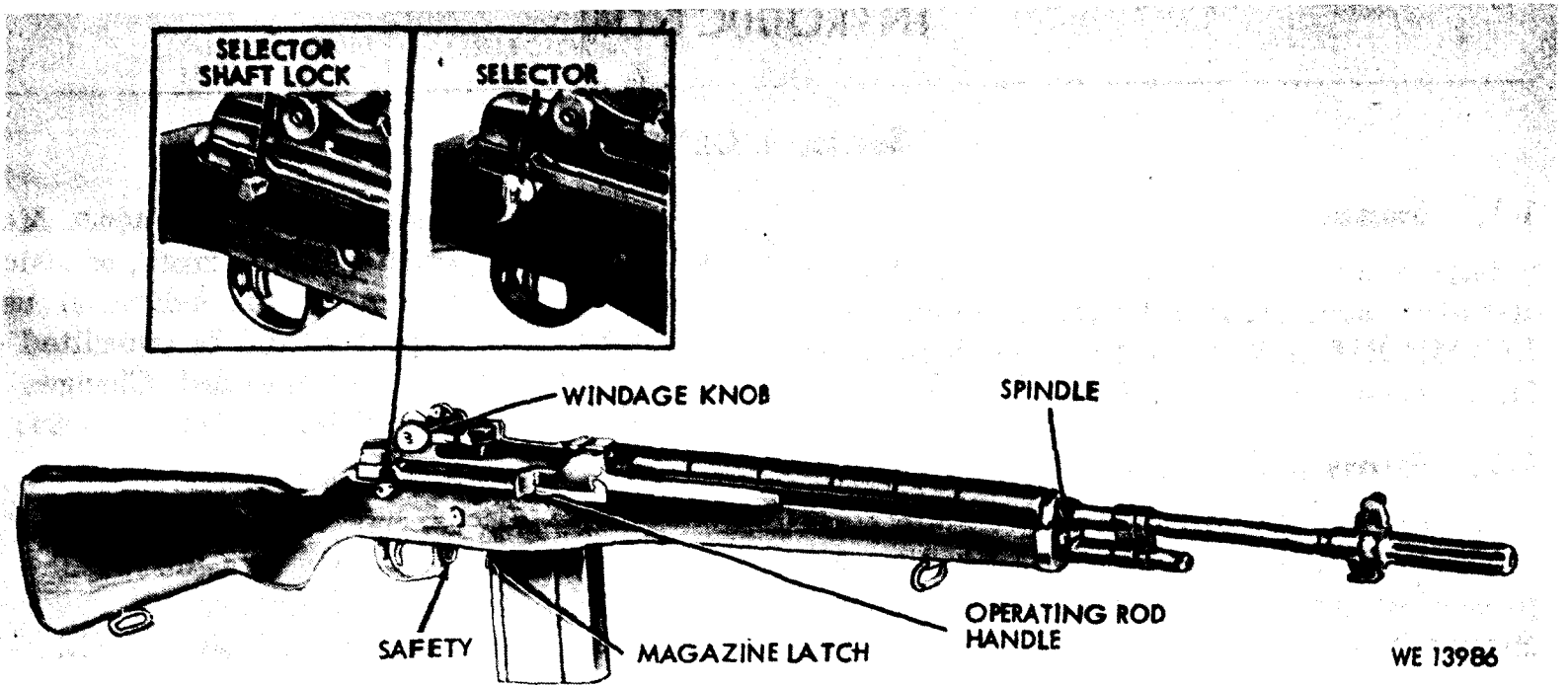


Figure 1-2. 7.62-MM Rifle M14 and controls - right front view with and without selector.

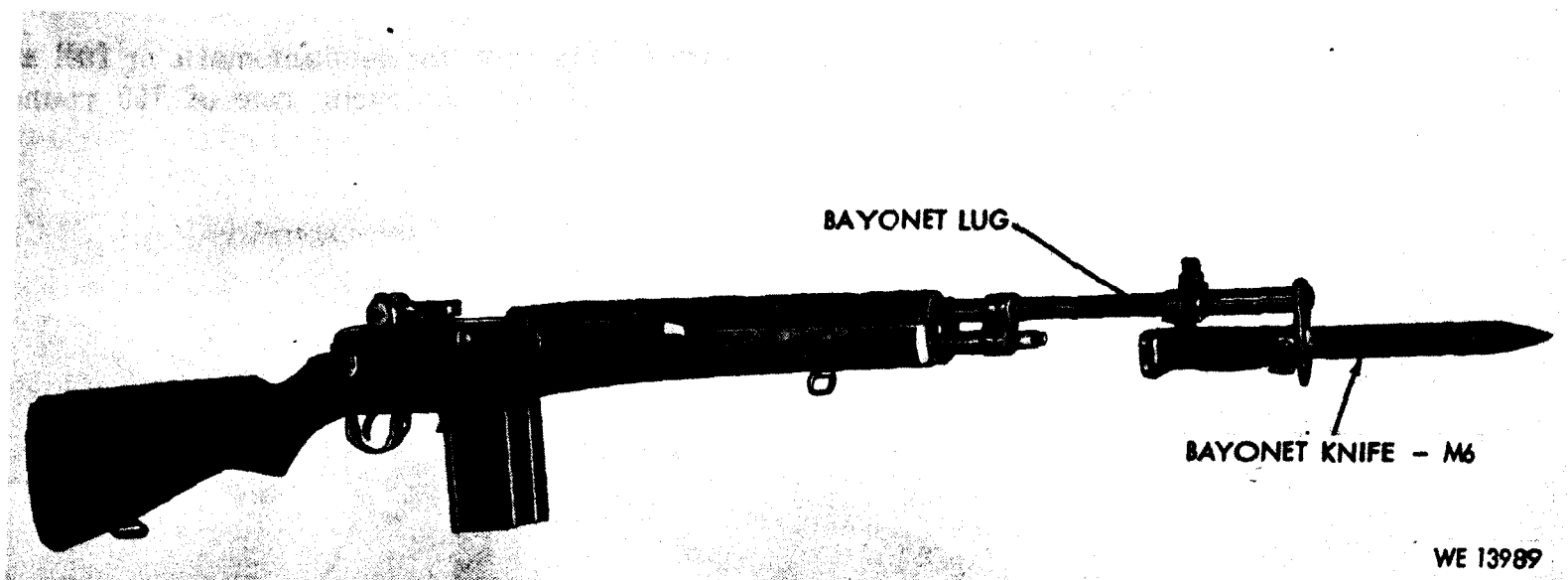
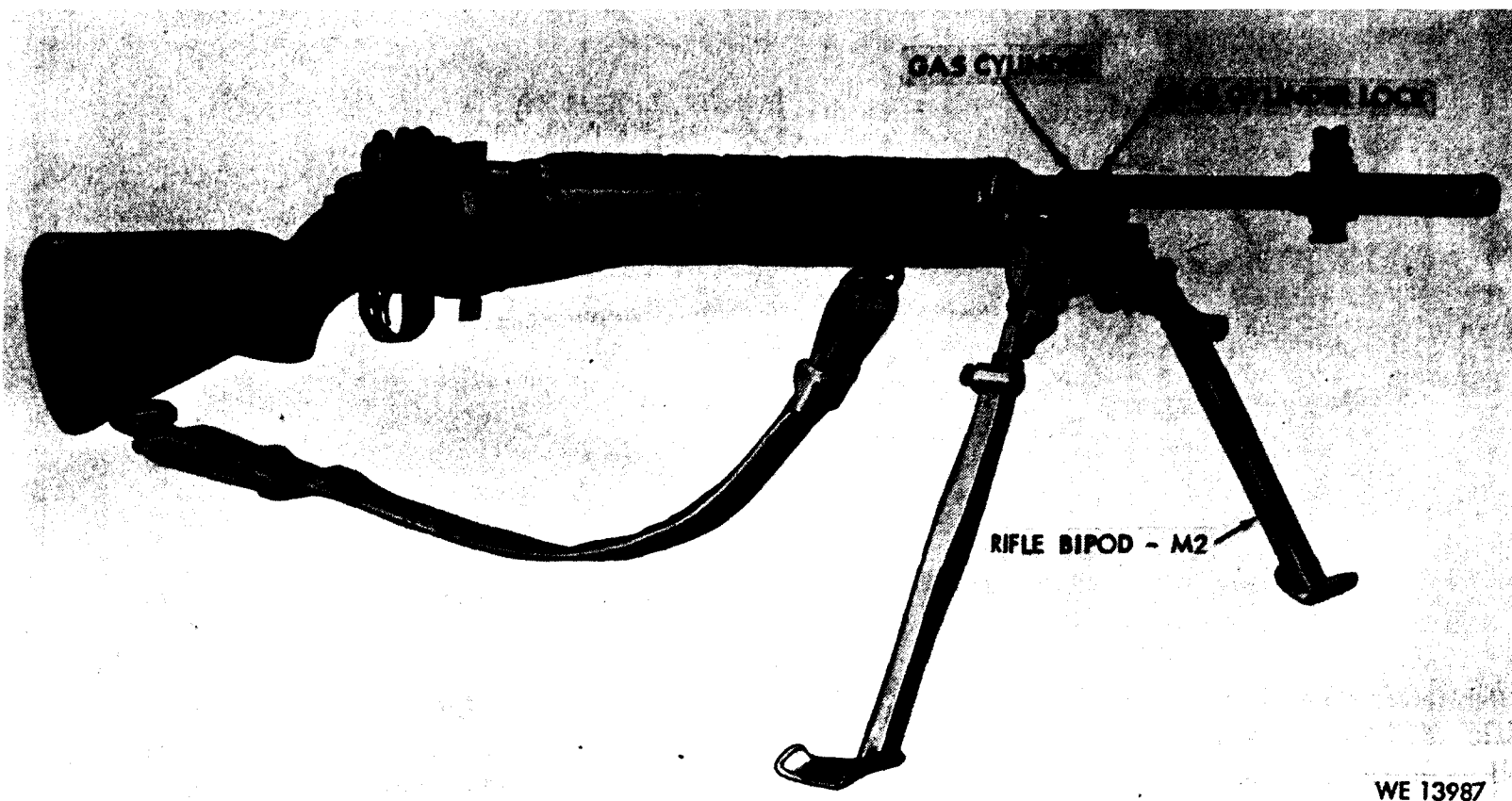
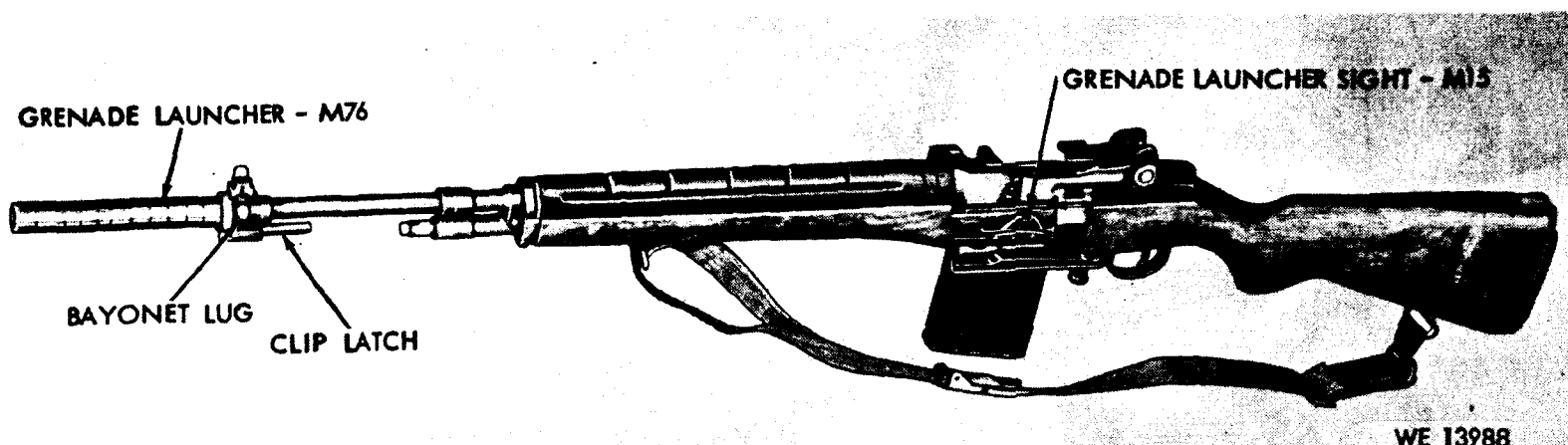


Figure 1-3. 7.62-MM Rifle M14 with Bayonet-Knife M6 - right front view.



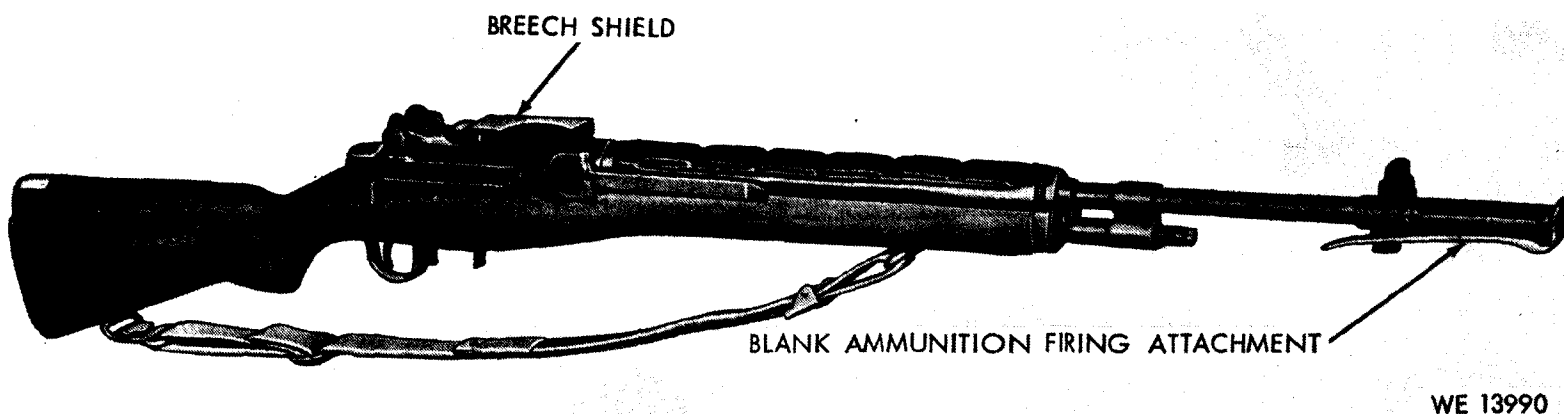
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Figure 1-4. 7.62-MM Rifle M14 with Bipod M2 installed - right front view.



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Figure 1-5. 7.62-MM Rifle M14 with Grenade Launcher M76 and Grenade Launcher Sight M15 — left front view.



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Figure 1-6. 7.62-MM Rifle M14 with Blank Ammunition Firing Attachment M12 with Breech Shield M3 installed - right front view.



Figure 1-7. 7.62-MM Rifle M14 with winter trigger kit - right front view.

b. Rifle M14A1 (figs. 1-8 and 1-9). The Rifle M14A1 is issued for the automatic rifle roll. Additional features are the folding shoulder rest, to aid the vertical control of the weapon, a recoil pad on the butt end of the stock,

for reduction of fatigue associated with continuous automatic fire, and a stabilizer assembly which provides muzzle compensation and recoil breaking.

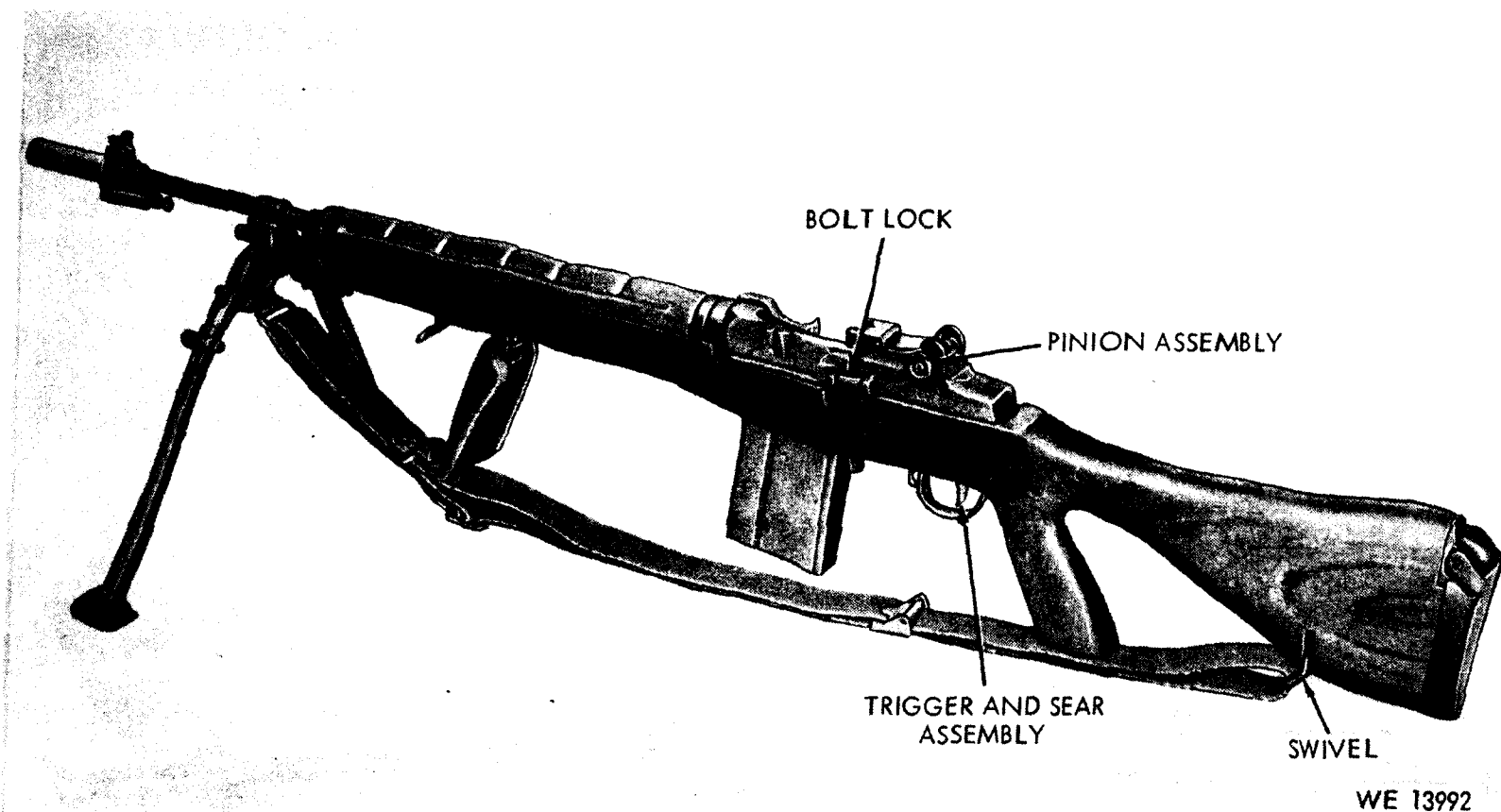


Figure 1-8. 7.62-MM Rifle M14A1 and controls - left rear view.

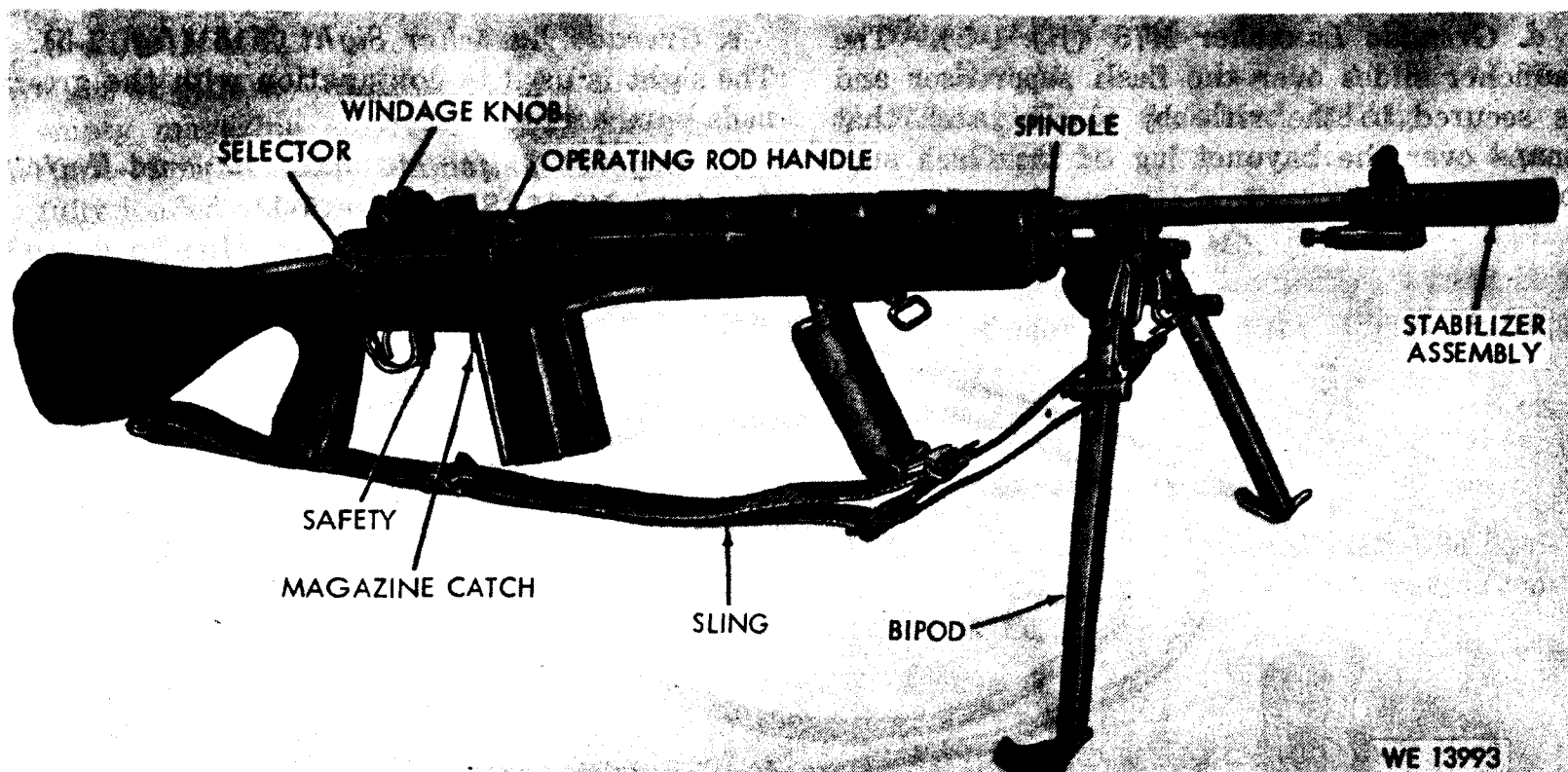


Figure 1-9. 7.62-MM Rifle M14A1 and controls - right front view.

c. Rifle Bipod M2. See figure 1-10.

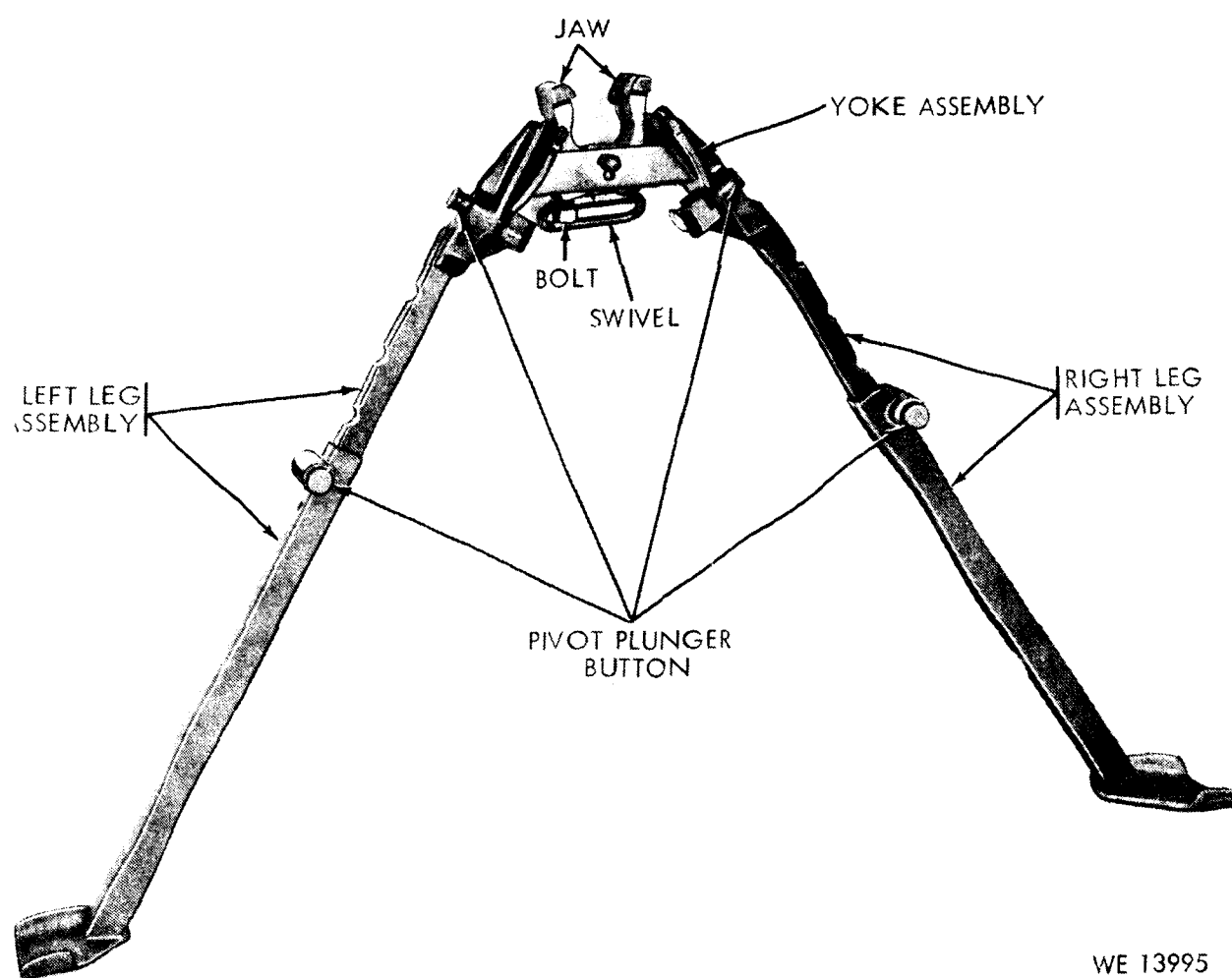


Figure 1-10. Rifle Bipod M2 and controls.

d. Grenade Launcher M76 (fig. 1-5). The launcher slides over the flash suppressor and is secured to the rifle by a clip latch that snaps over the bayonet lug of the flash suppressor.

e. Grenade Launcher Sight M15 (fig. 1-5). The sight is used in conjunction with the grenade launcher.

f. Bayonet-Knife M6 and Bayonet-Knife Scabbard M8A1. See figure 1-11.

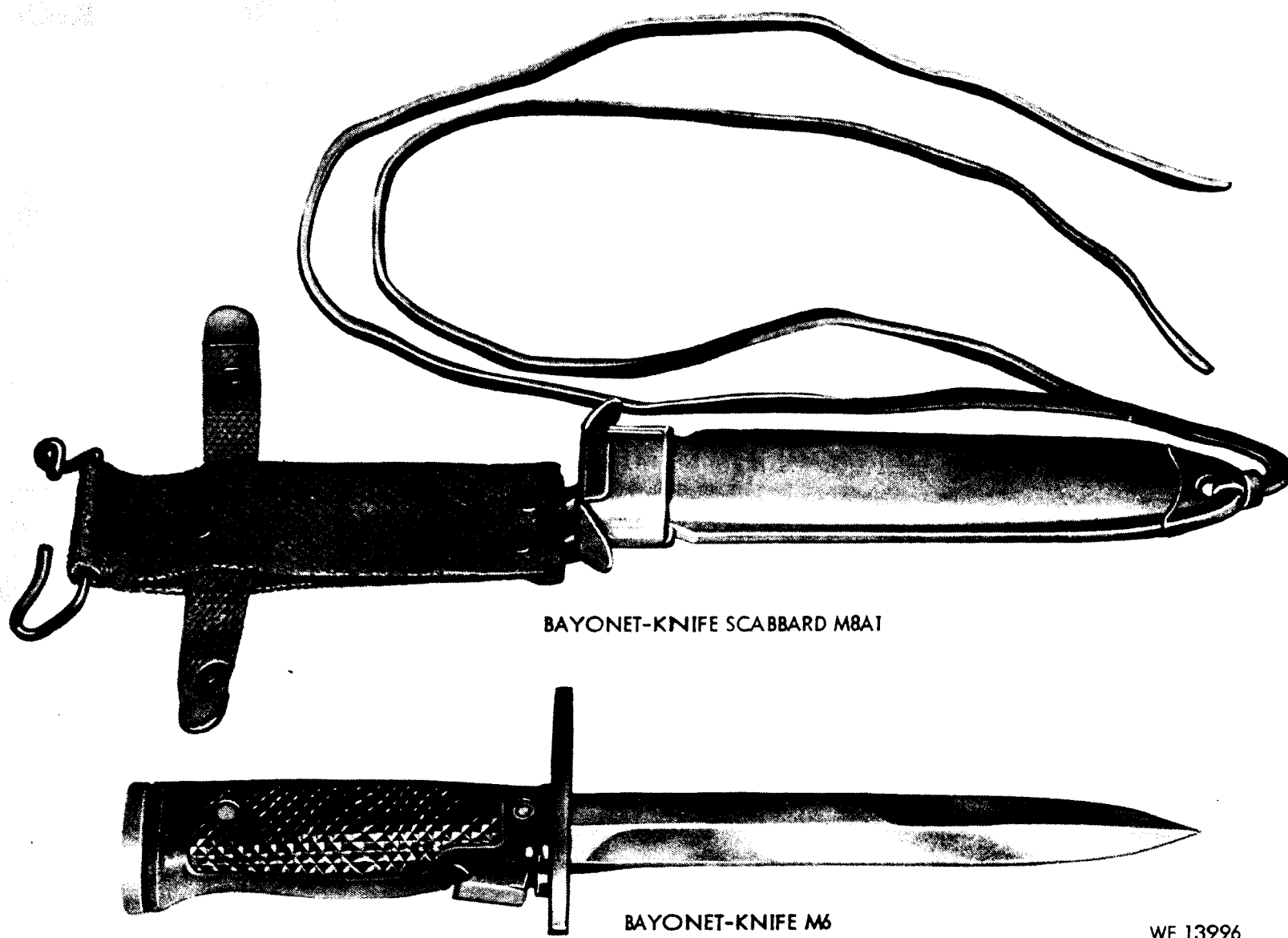


Figure 1-11. Bayonet-Knife Scabbard M8A1 and Bayonet-Knife M6.

g. Blank Ammunition Firing Attachment (fig. 1-6). The blank ammunition firing attachment consists of the M12 attachment and the M3 breech shield.

h. Winter Trigger Kit (fig. 1-7). The winter trigger kit is used during cold or Arctic operations.

1-4. Tabulated Data.

a. Rifle M14.

Weight of rifle w/equipment and empty magazine.....9.1 lb approx

Weight of rifle w/equipment and fully loaded magazine.....11.0 lb approx
Length of rifle with flash suppressor..44.3 in.
Length of barrel22.0 in.
Type of firing*rotating bolt
Muzzle velocity*2,800 fps.
Ammunition types*NATO, 7.62-mm ball, AP, tracer, dummy and blank.
Maximum range*See FT 7.62-A-2

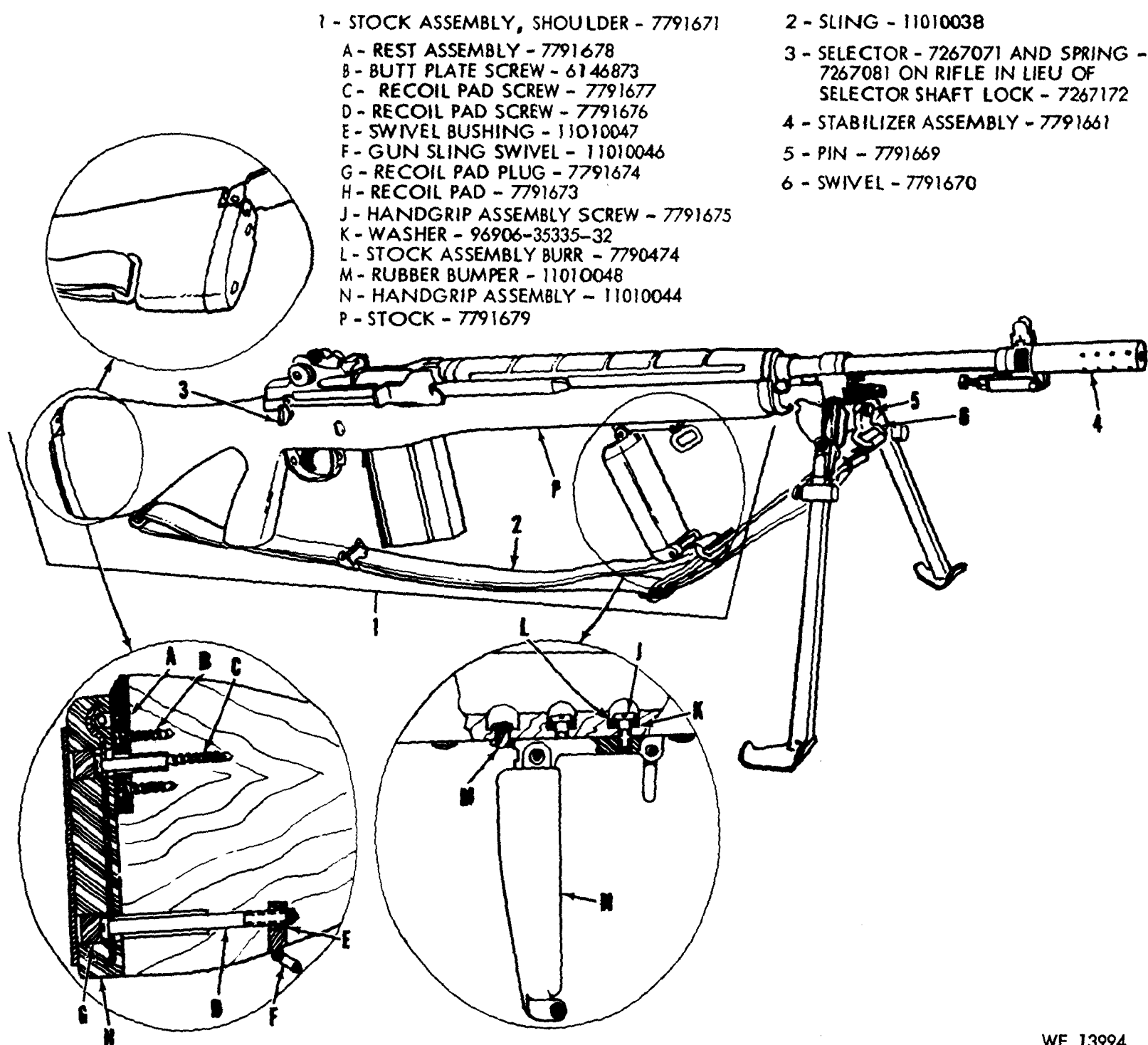
*Also applicable to M14A1 Rifle.

- b. Rifle M14A1.*
 Weight of rifle w/equipment and
 empty magazine12.12 lb approx
 Weight of rifle w/equipment and
 fully loaded magazine13.13 lb approx
 Length of rifle with
 stabilizer44.3 in. approx
c. Bipod.
 Weight 1-3/4 lb
*d. Grenade Launcher M76 and Grenade
 Launcher Sight M15.*
 - (1) Grenade launcher.
 Weight 7 oz.
 - (2) Grenade launcher sight.
 Weight 5 oz.

- e. Bayonet-Knife M6.*
 Weight 12 oz.
- f. Bayonet-Knife Scabbard M8A1.*
 Weight 4 oz.
- g. Blank Ammunition Firing Attachment
 M12 with Breech Shield M3.*
 Weight 4 oz.
- h. Kit, Winter Trigger With Winter Safety
 (M14 Rifle).*
 Weight 3 oz.

1-5. Difference in Models.

Refer to figure 1-12 for identification of components of the M14A1 Rifle that vary from the M14 Rifle.



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Figure 1-12. Identification of components of the M14A1 Rifle that vary from the M14 Rifle.

CHAPTER 2

OPERATING INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF MATERIEL

2-1. General.

a. When a new or reconditioned M14 or M14A1 Rifle and M2 Bipod are received, it is the responsibility of the officer in charge to determine whether the materiel has been properly prepared for service by the supplying organization and to be sure it is in condition to perform its function.

b All basic issue items will be checked with the listing in appendix C, section II. Organizational tools and repair parts will be checked with listing in appendix C, sections V and VI.

c. A record will be made of all missing parts, tools, and equipment and of any malfunctions. Corrective action will be initiated as quickly as possible.

Note. Upon receipt, M14 Rifles are equipped with selector shaft lock (fig. 1-2) and have a selector and spring packaged and secured to the rifle. It is a command responsibility to determine which weapons have the selector shaft locks removed and the selectors installed. In any event, selectors and locks not installed on rifles will be retained at Organizational level. Organizational maintenance is responsible for installation and/or removal of either component. Use a 1/16 inch punch with a straight shank to drive spring pin out.

Caution. Punch must have a flat surface and not pointed, to prevent spreading the pin. Body of punch must be straight, not tapered. Do not strike punch with heavy force as this will cause damage to the selector shaft.

d. The Department of the Army has established the following policy governing the issue of selectors for automatic fire.

- (1) The selector will be permanently installed on all M14 Rifles which replace the Browning automatic rifle in TOE organizations.
- (2) The selector will be installed on modified M14 Rifles designed to replace

the caliber .45 submachine guns in Armor units.

(3) Division and other separate major tactical commanders will be authorized to install at their discretion, based on the tactical situation, a maximum of two additional selectors per squad. Further, division commanders at their discretion may issue bipods in support of these weapons from authorized maintenance float held at division level. Selectors for this conversion will be held at company level.

(4) Issue of selectors to individuals, in addition to those authorized above, will require approval of the U.S. Continental Army Command in the case of CONUS organizations or the theater Army Commander in the case of oversea organizations. Pending issue, these selectors will be held in the Division Ordnance Battalion or comparable maintenance level.

e. When the M14A1 Rifles are received they are equipped with selector and bipod and are utilized solely for the automatic role.

2-2. Services.

Refer to table 2-1 for services performed on receipt of materiel.

Table 2-1. Service Upon Receipt of Materiel

Step	Action	Reference
	RIFLES	
	<i>Note.</i> When new rifles are received, they are sealed in vapor proof, volatile corrosion inhibitor (VCI) bags. They are packed two in a carton and five cartons in a box.	
1	Remove carton from box and rifle from carton and bags.	
2	Inspect for missing parts.	Par. 2-1
3	Clean bore and chamber.	Par. 3-2

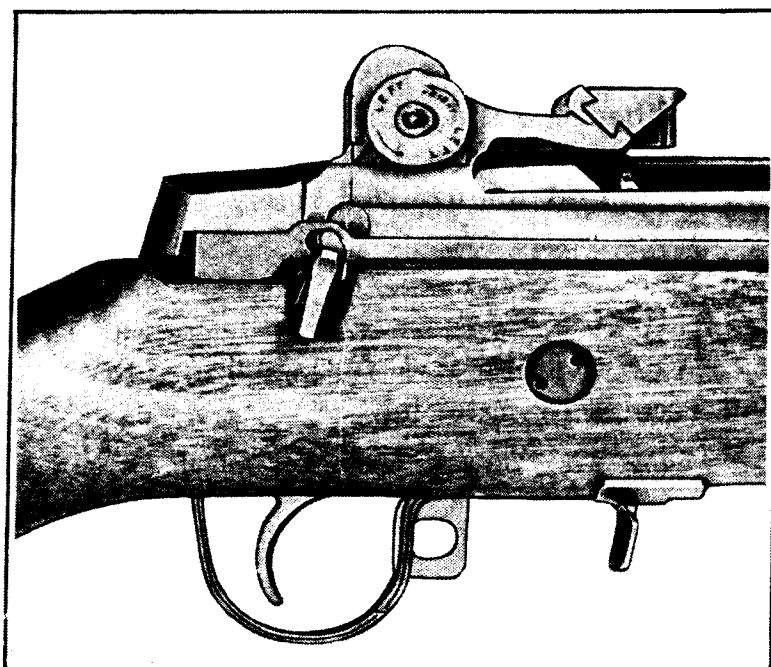
Table 2-1. Service Upon Receipt of Materiel Cont'd

Step	Action	Reference
4	Disassemble, clean and lubricate locking lugs of bolt, bolt roller, bolt guides, cocking cam on bolt, operating rod guide groove, camming surfaces of operating rod, and operating rod spring. BIPOD <i>Note.</i> When new bipods are received they are sealed in vapor-proof, volatile corrosion inhibitor (VCI) bags and are packed one to a carton.	Figure 3-5 and par. 3-2
1	Remove bipod from carton and bag.	
2	Apply a light coat of oil to leg assemblies and yoke assembly.	Table 3-2

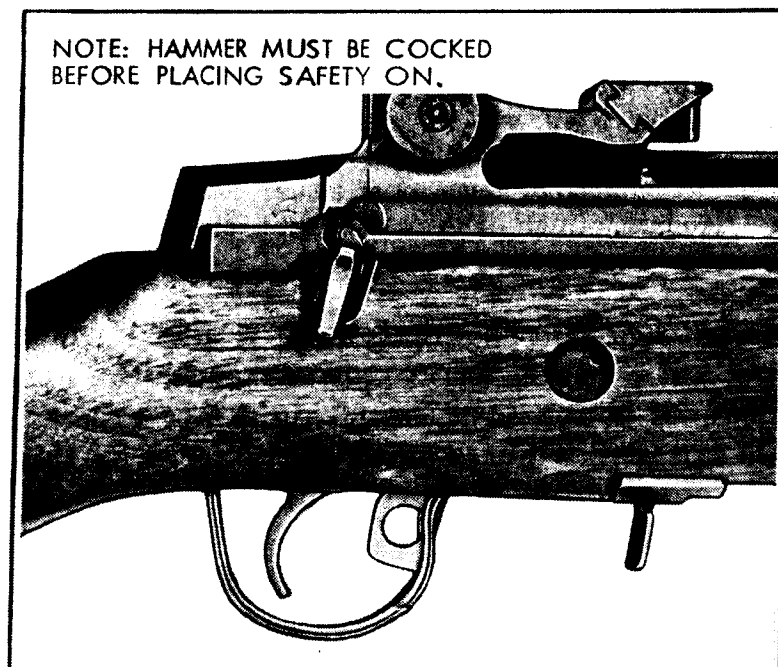
Section II. CONTROLS

2-3. General.

Refer to figures 1-1, 1-2, 1-8 through 1-10, and 2-1 through 2-3.



SAFETY OFF



SAFETY ON

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Figure 2-1. Function of safety.

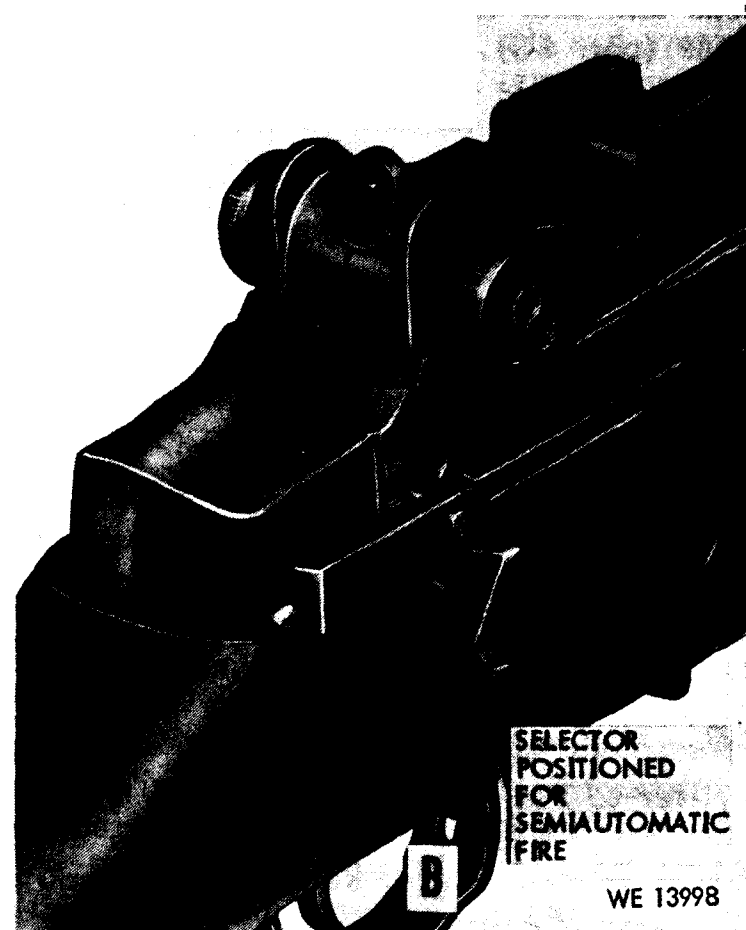
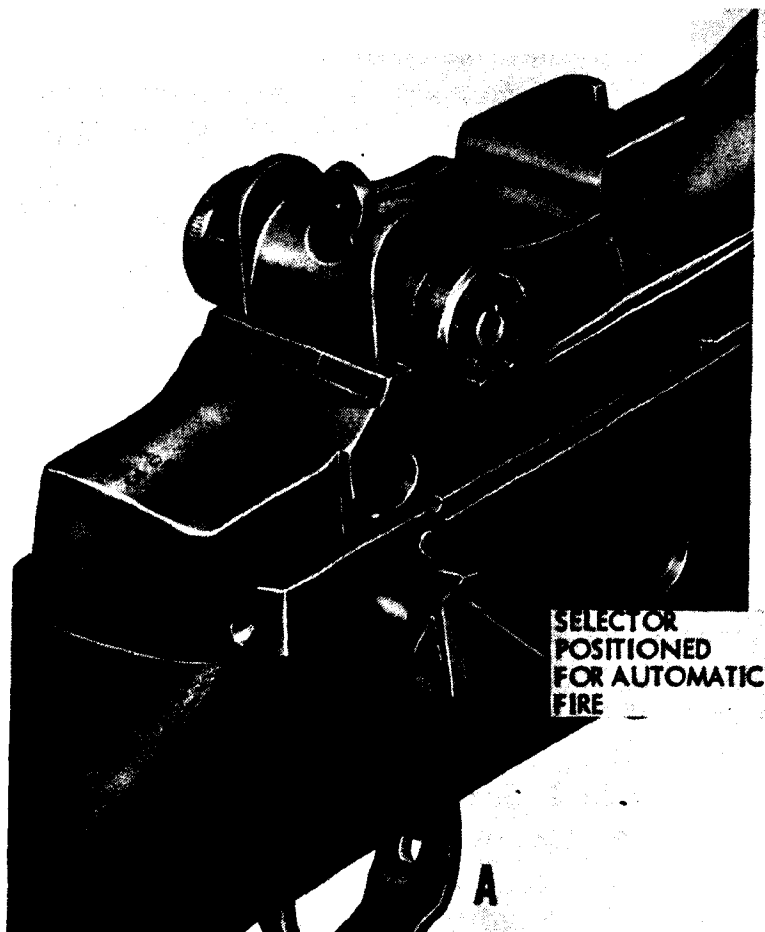


Figure 2-2. Selector in position for automatic and semiautomatic fire.

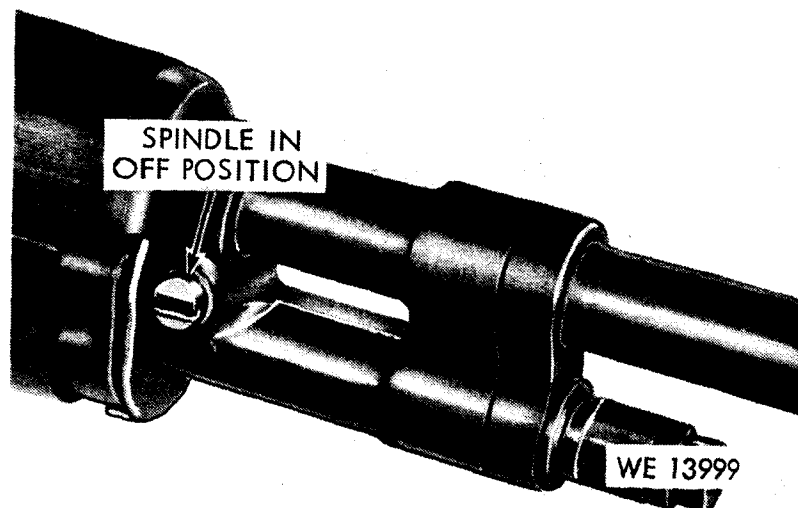
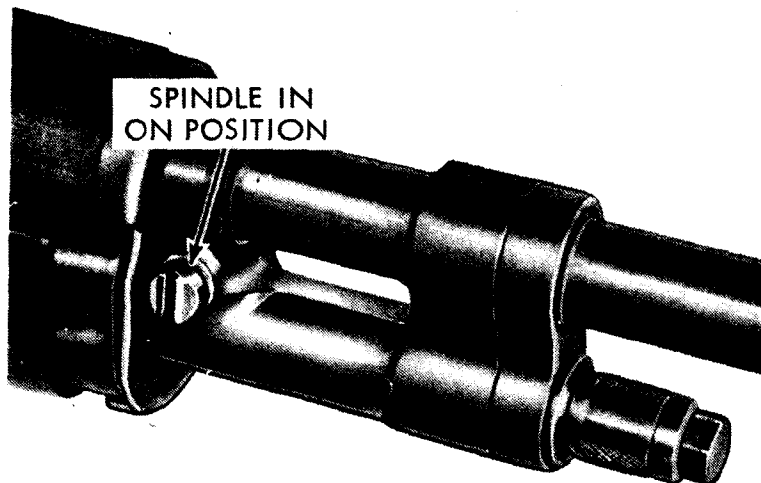


Figure 2.3. Gas spindle - on and off position.

Section III. OPERATION UNDER USUAL CONDITIONS

2-4. General.

This section contains instructions for the operation of the rifles and bipod under conditions of moderate temperatures and humidity. Instructions for operation under unusual conditions are covered in section IV.

2-5. Preparation for Firing.

- a. Examine bore, make certain it is free of powder fouling or corrosion.
- b. Check gas cylinder plug for secure installation.

c. Check ammunition, make certain it is clean and that it is of the proper type and grade (par. 4-3).

d. Check bipod for secure installation. Tighten bolt, if loose.

e. Cock the rifle and place the safety in safe position (fig. 2-1).

2-6. Service Before Firing.

Perform the before firing operations as indicated in table 3-2.

2-7. Loading.

Refer to FM 23-8.

2-8. Zeroing.

Refer to FM 23-71.

2-9. Misfire, Hangfire, and Cook-off.

Refer to FM 23-8.

2-10. Procedures for Removing a Round in Case of Failure to Fire.

a. *General.* After failure to fire, due to a misfire, the following general precautions, as applicable, will be observed until the round has been removed from the weapon and the cause of failure determined.

- (1) Keep the weapon trained on the target and see that all personnel are clear of the muzzle.
- (2) Before retracting the bolt and removing the round, see that personnel, not required for operation, are cleared from vicinity.
- (3) Make certain the round, removed

from the weapon, is kept separate from the rounds until it has been determined whether the round or firing mechanism was at fault. If the weapon is determined to be at fault, the round may be reloaded.

b. *Time Intervals.* The definite time intervals for waiting, after failure of weapon to fire, are prescribed as follows: Always keep the round in the chamber for five seconds from the time a misfire occurs to insure against an explosion outside of the gun in event a hangfire develops. If the barrel is hot, and a misfire stops operation of the gun, wait five seconds with the round locked in the chamber to insure against hangfire dangers (a hangfire will occur within five seconds after the primer is struck), then extract the round immediately to prevent cook-off. If the round cannot be extracted within an additional five seconds, it must remain locked in the chamber for five minutes because of the possibility of a cook-off. Also in the event the barrel is hot and a misfire occurs when attempting to resume firing after an intentional cessation of firing, the round should remain locked in the chamber for five minutes because of the possibility of a cook-off. One hundred and fifty rounds fired in a two-minute interval will heat a barrel enough to produce a cook-off.

2-11. Service During Firing.

Perform the during firing operations as described in the operators preventive-maintenance services (table 3-2).

2-12. Unloading.

Refer to FM 23-8.

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-13. General Conditions.

a. See paragraph 2-14 for instructions on lubrications under unusual conditions and table 3-2 for preventive-maintenance checks to be made when materiel is subjected to usual conditions.

b. When chronic failure of materiel results from subjection to extreme conditions, re-

port of such chronic failure should be made in accordance with paragraph 1-2.

2-14. Operation in Extreme Cold.

a. In climates where the temperature is consistently below 0°F., it is necessary to prepare the materiel for cold-weather operation. The rifle and bipod should be thoroughly

cleaned with SD, dry cleaning solvent, and lubricated with LAW, weapons lubricating oil.

b. Exercise the various controls through their entire range, at intervals as required, to aid in keeping them from freezing in place and to reduce the effort required to operate them.

c. Materiel not in use, and stored outside, must be protected with a proper cover.

d. See FM 31-70 for information on operations in the Arctic.

2-15. Operation in Extreme Heat.

a. Hot Climates.

(1) When operating in hot climates, the film of oil necessary for operation and preservation will dissipate quickly. Inspect the rifle, paying particular attention to all hidden surfaces such as bolt and roller, operating rod and recess, cam surfaces and bolt locking recess in receiver, the yoke assembly and leg assemblies of the bipod where corrosion might occur and not be quickly noticed.

(2) Perspiration from the hands is a contributing factor to rusting because it contains acids and salts. After handling materiel, clean, wipe dry, and restore the oil film using PL special, general purpose lubricating oil.

Note. For care, handling, and preservation of ammunition, see paragraph 4-4.

b. *Hot, Dry Climates.* When operating in hot, dry climates, clean and oil the bore of the rifle more frequently than usual.

c. Hot, Damp, and Salty Atmosphere.

(1) Inspect materiel frequently, when operating in hot, moist areas.

(2) When materiel is active, clean and lubricate the bore and exposed metal surfaces more frequently than prescribed for normal service.

(3) Moist and salty atmospheres have a tendency to emulsify oils and greases and destroy their rust-preventive qualities. Inspect all parts frequently for corrosion.

(4) When materiel is inactive, cover unpainted surfaces with a film of PL special, general purpose lubricating oil.

2-16. Operation Under Sandy or Muddy Conditions.

a. *Sand.* Clean and lubricate the materiel more frequently when operating in sandy areas. Exercise particular care to keep sand out of mechanisms when carrying out inspecting and lubricating operations. Shield parts from flying sand, with paulins, during disassembly and assembly operations. When commencing an action in sandy areas, remove lubricant from bolt, barrel and receiver, connector assembly, operating rod, firing mechanism, and bipod, as they will pick up sand and form an abrasive which will cause rapid wear. With surfaces dry, there is less wear than when coated with lubricants contaminated with sand. Clean and lubricate all exposed parts after action is over.

b. *Mud.* Clean and lubricate materiel as soon as possible when operating in areas which are muddy. Exercise particular care and make certain all mud is removed and that mechanism is thoroughly dry before lubricating. Clean and lubricate all exposed parts after action is over.

2-17. Hand-Carried Fording.

a. No special lubrication is required before fording.

b. Protect from water splashes.

c. If accidental immersion occurs, proceed as directed in paragraph 3-5.

CHAPTER 3

OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. OPERATOR AND ORGANIZATIONAL TOOLS AND EQUIPMENT

3-1. Tools and Equipment.

Refer to table 3-1.

Table 3-1. Tools and Equipment

Item	Identifying number	Reference		Function
		Fig.	Par.	
BRUSH, CLEANING, SMALL ARMS: bore	5564174	C-1	3-2	To clean barrel bore.
BRUSH, CLEANING, SMALL ARMS: chamber	7790463	3-1	3-2	To clean the chamber.
COMBINATION TOOLS:	7790769	C-1	3-20	To remove and install gas cylinder plug, extractor, ejector, and loosen or tighten windage knob retaining nut.
		3-11		
EXTRACTOR, RUPTURED CARTRIDGE CASE:	7790352	3-14	Table 3-4	To remove ruptured cartridge case.
PLIERS, LOCK NUT, FLASH SUPPRESSOR:	7790493	C-5	Table 3-5	To tighten plain round flash suppressor nut.
REFLECTOR, GUN BARREL:	7790138	3-15	Table 3-5	To visually inspect barrel bore.
ROD, SECTION, CLEANING, SMALL ARMS:	7266109	C-5	3-2	Used with brush 5564174 and brush 7790463 to clean bore and chamber.
SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD:	7266110	C-1		Used with rod section 7266109 to clean barrel bore.

Section II. CLEANING AND LUBRICATING INSTRUCTIONS

3-2. Cleaning Instructions

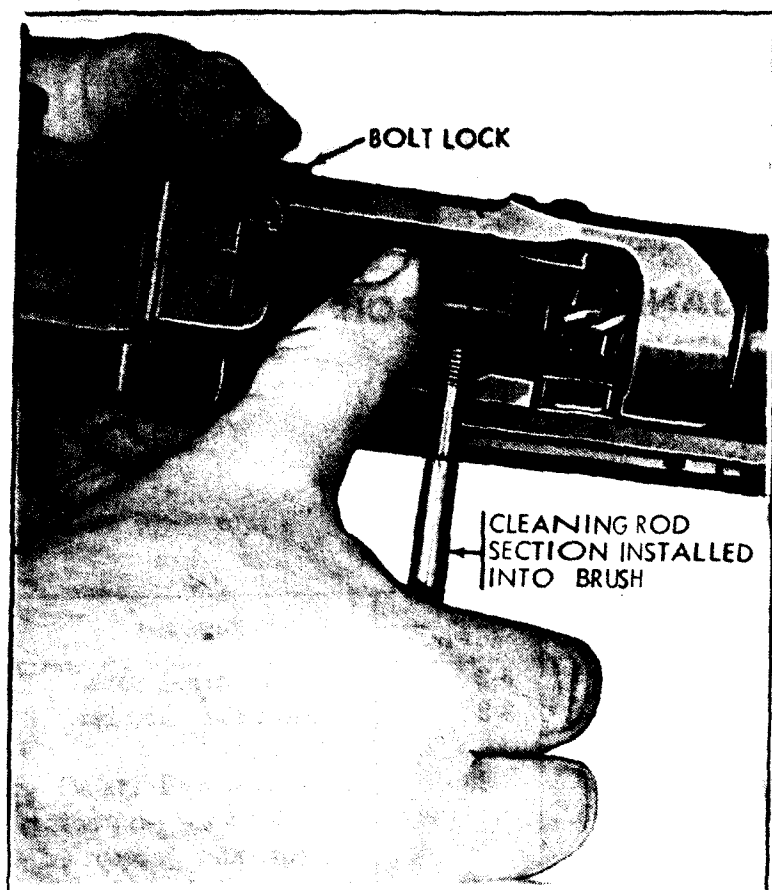
a. Immediately after firing, thoroughly clean bore with a bore brush saturated with CR, solvent cleaning compound.

b. After cleaning with CR, the bore should be swabbed with flannel cleaning patches making certain no trace of burned powder or other foreign substances are left. Then apply a light coat of PL special, general purpose lubricating oil.

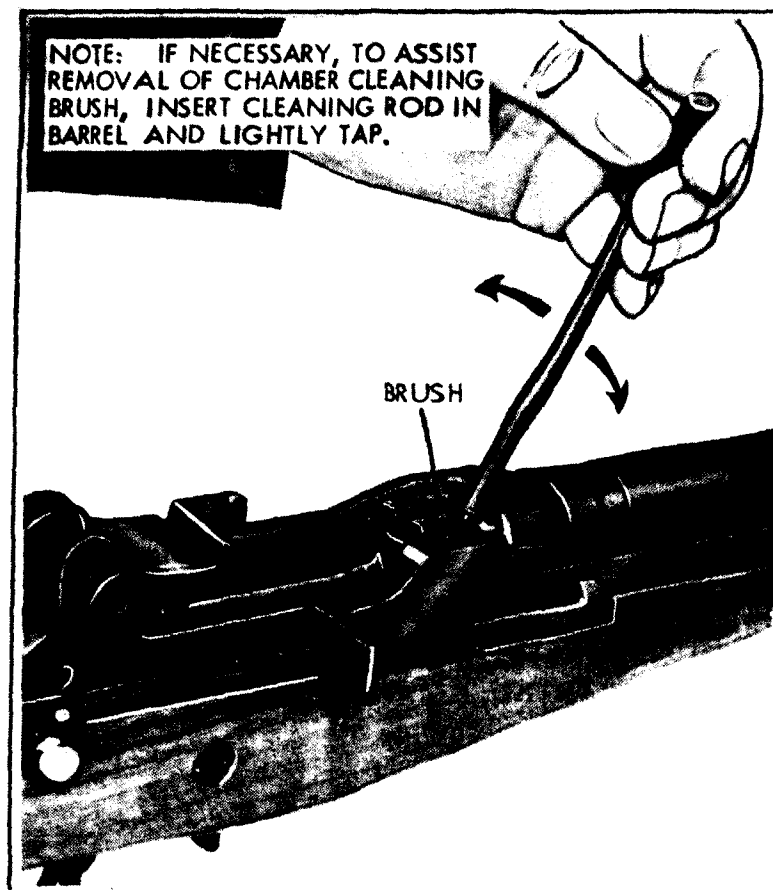
c. The chamber should be cleaned with a cleaning brush, using the following procedures:

Note. The following procedures are used when the rifle is ASSEMBLED.

- (1) Screw the threaded end of cleaning rod section into ratchet base of brush (A, fig. 3-1).



A. INSERTING CHAMBER CLEANING BRUSH IN CHAMBER.



B. CLEANING CHAMBER.

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Figure 3-1. Procedures for cleaning chamber.

Caution. Be sure all threaded areas are clean, undamaged, and not cross threaded, when assembled.

- (2) Remove magazine (fig. 3-4).
- (3) Apply a light coating of CR to chamber.
- (4) Withdraw bolt rearward engaging bolt lock and hold bolt lock in open position (A, fig. 3-1).
- (5) Insert brush in chamber with thumb pushing against base of brush (A, fig. 3-1).
- (6) Pull operating rod rearward, release bolt lock and ease operating rod and bolt fully forward, seating brush in chamber.
- (7) Move rod section from side to side several times (B, fig. 3-1).
- (8) Grasp cleaning rod section, as close to receiver as possible, with the fingers pulling rearward and thumb exerting a forward pressure on end of

rod. Pull rearward until brush clears chamber. Grasp operating rod handle, relieving tension on brush, and remove section and brush from receiver. Apply a light coat of PL special, general purpose lubricating oil, to chamber. Close bolt.

Note. Use the following procedures when the rifle is DISASSEMBLED.

- (9) Insert brush in chamber with thumb exerting pressure on base of brush.
- (10) Move rod section from side to side several times.
- (11) Remove brush and section from chamber and apply a light coat of PL special, general purpose lubricating oil.

d. To clean gas spindle (fig. 2-3), insert rim of cartridge or blade portion of combination tool in slot of spindle valve. Push in and rotate several times, until carbon is broken loose. Do not attempt to disassemble from rifle. If

spindle valve is heavily carboned, use a block of wood or a plastic hammer (not a steel hammer) to drive valve from side to side, until spindle valve becomes loose and can be rotated.

e. Immediately after firing clean all components and surfaces exposed to powder fouling (with the exception of the gas cylinder components) with CR, solvent cleaning compound. The gas cylinder components will be removed and cleaned with CR only when inspection reveals that the piston will no longer move within the cylinder under its own weight when the barrel is tilted end for end. The gas cylinder lock and cylinder will not be removed.

Note. This compound is not a lubricant. Parts which require lubrication will be wiped dry and oiled.

f. After cleaning is accomplished it will be noted that the piston will be slightly discolored. This is a normal condition and it is to be emphasized that none of these components are to be polished.

Caution. Use of abrasives, steel wool, wire brushes, or scrapers on these components, changes critical dimensions that may cause the weapon to malfunction. Also, the application of lubricants to these components is prohibited.

g. For general usage, SD, dry cleaning solvent, may be used to clean or wash grease and oil from all parts of the rifle and bipod. On component parts, which contain a hard carbon residue, such as flash suppresser, gas cylinder plug, gas piston and gas cylinder it may be necessary to clean these parts with carbon removing compound P-C-111A.

Warning. Avoid skin contact. The compound should be washed off thoroughly with running water if it comes in contact with the skin. A good lanolin base cream, after exposure to compound, is helpful. The use of gloves and protective equipment is recommended.

h. Cleaning instructions are as follows:

- (1) Using a suitable container, fill with fresh compound.
- (2) Before soaking a component in compound, remove all grease, dirt and oil as indicated above. Place parts to be cleaned in a container, making certain they are completely immersed.

- (3) Soak for 2 to 16 hours. Remove parts and allow to drain. Rinse with water, or solvent. To effectively remove carbon, brush with a stiff bristle brush under running water.

i. Clean bipod with CR, solvent cleaning compound. Lubricate yoke and leg assemblies.

3-3. General Precaution In Cleaning.

a. SD, dry cleaning solvent, is flammable and should not be used near an open flame. Fire extinguishers should be readily available when this material is used. In addition, it evaporates quickly and has a drying effect on skin. If used without gloves it may cause cracks in the skin and, in the case of some individuals, a mild irritation or inflammation. Use only in well-ventilated places.

b. The use of gasoline, kerosene, benzene (benzol) or high-pressure water, steam, or air, for cleaning the weapon is prohibited.

c. Do not dilute CR, solvent cleaning compound. Do not add antifreeze. Store cleaner in a warm place. Shake CR well before using.

3-4. Care of Sling, Envelope, Scabbard, and Stock Assembly.

a. To prevent mildew, shake out and air web straps and canvas items for several hours at frequent intervals. Repair loose grommets or rips in canvas, without delay. Failure to make immediate repairs may allow a minor defect to develop into major damage. Mildewed canvas is cleaned by scrubbing with a dry brush. If water is necessary, to remove dirt, it must not be used until mildew has been removed. If mildew is present, examine fabric carefully for evidence of rotting or weakening of fabric by stretching and pulling. If fabric shows indication of loss of tensile strength, it is probably not worth retreatment. Oil and grease may be removed by scrubbing with issue soap and water. Rinse well with water and dry.

Caution. At no time is gasoline or any solvent to be used to remove oil or grease from canvas. Canvas should be dried thoroughly before folding.

b. When cleaning wooden surfaces of the stock assembly remove dirt, grease and car-

bon, by wiping with a dry cloth. Wooden stocks should not be sanded, shaved, or scraped. Raw linseed oil should be rubbed into the wood to prevent dryness and prohibit absorption of moisture.

Caution. Do not apply linseed oil to those surfaces adjacent to the barrel as application of oil to these surfaces creates a heavy smoking, caused by heat from barrel. This will obscure the operator's vision. Portions which swell due to high moisture content should be dried prior to application of the linseed oil. Do not allow linseed oil to contact and remain on metal parts.

3-5. Maintenance After Immersion.

a. General. During hand-carried fording, water seepage into bolt, firing mechanism, receiver, operating rod assembly, and bipod will occur. It is advisable, therefore, that the service outlined below be accomplished on all weapons which have been immersed or completely submerged in water, especially in salt water, and that precautions outlined in (1) and (3) be taken as soon as practical to halt deterioration and avoid damage to the weapon.

- (1) After submersion in salt water, wash in clear water to remove corrosive salts.
- (2) Drain all trapped moisture and wipe dry.
- (3) Assemblies which require disassembly for proper lubrication must be disassembled, dried and lubricated as soon as the situation permits.

b. Cleaning and Lubrication. Refer to paragraphs 3-2 and 3-6.

3-6. General Lubricating Instructions.

a. Usual Conditions. Make certain all metal parts have been cleaned with SD, dry cleaning solvent, and dried thoroughly. Apply a light coat of preservative, PL special, general purpose lubricating oil. Apply a light coat of rifle grease to the following surfaces:

- (1) Locking lugs of bolt, operating lug, and recesses.
- (2) Bolt guide.
- (3) Anti-friction roller on bolt.

- (4) Operating rod guide groove on side of receiver.

b. Reports and Records. Report unsatisfactory performance of materiel or effect of prescribed lubricants and preserving materials (par. 1-2).

3-7. Lubrication Under Unusual Conditions.

a. Changing Grade of Lubricants. Lubricants are prescribed in accordance with temperature ranges. The time to change the grade of lubricants is determined by maintaining a close check on the operation of the rifles during the approach to change-over periods in accordance with weather forecast data. Ordinarily, it will be necessary to change grade of lubricants only when air temperatures are consistently in the next higher or lower range.

b. Extreme Cold-Weather Lubrication. Apply a light coat of LAW, weapons lubricating oil, to the rifle and bipod and exercise weapon frequently during periods of low temperature below 0°F., to insure proper functioning.

c. Extreme Hot-Weather Lubrication. Special lubricants will ordinarily not be required at extremely high temperatures, as lubricants prescribed for temperatures above 0°F., provide adequate protection. However, more frequent servicing than specified in tables 3-2 and 3-3 is necessary because the heat tends to dissipate the lubricants.

d. Lubrication for Humid and Salt-Air Conditions. High humidity, moisture, or salt-air contaminate lubricants, necessitating more frequent service than specified in tables 3-2 and 3-3.

e. Before Immersion Lubrication. No special lubrication is required before amphibious operation.

f. After-Immersion Lubrication. After immersion, perform the maintenance described in paragraph 3-13, which covers maintenance operations after immersion and includes special lubrication instructions.

g. Lubrication After Operation Under Sandy or Dusty Conditions. If firing or prolonged travel has occurred under dusty or sandy conditions, clean and inspect all lubricated surfaces for fouled lubricants. Lubricate as necessary.

Section III. PREVENTIVE-MAINTENANCE SERVICES

3-8. Preventive Maintenance by Operator.

a. Purpose. To assure maximum operational readiness it is necessary that certain scheduled maintenance services be performed at designated intervals. See table 3-2. Any deficiencies discovered, that cannot be corrected, will be reported as specified in TM 38-750.

b. Daily Preventive-Maintenance Service. Refer to table 3-2.

3-9. Basic Preventive Maintenance.

The general preventive-maintenance procedures outlined in *a* through *c* below will be observed in addition to those referred to in tables 3-2 and 3-3.

a. Rust, dirt, grit, gummed oil, and water cause rapid deterioration of internal mechanisms and outer surfaces. Particular care should be taken to keep all surfaces clean and properly lubricated. Exterior surfaces of the weapon (components) are not to be cleaned or polished with treated cloth or other commercial compounds.

b. Loose parts will be tightened and broken parts will be replaced or repaired.

c. Every six months check if all modifications have been applied. Refer to DA Pam 310-4. No alteration or modification will be made except as authorized by modification work order.

Table 3-2 Preventive Maintenance Checks & Services

Interval & sequence no.			Operator	FUNCTION	Daily	Schedule
Before operation	During operation	After operation		Item to be inspected	Procedure	Paragraph reference
1	-----	7		Rifle, M14 and M14A1	Clean chamber, bore, and all components and lubricate, with exception of gas cylinder and piston. These will remain dry.	Par. 3-2 and 3-6
*1	-----	*7		Rifle, M14 and M14A1	Lubricate with LAW.	
**1	-----	**7		Rifle, M14 and M14A1	Remove excessive oil.	
2	6	-----		Rifle, M14 and M14A1	Check gas cylinder plug for secure installation. <i>Note.</i> Do not tighten gas cylinder plug when weapon is hot.	
3	-----	-----		Rifle, M14 and M14A1	Hand function operating rod and bolt, they should not bind.	
4	-----	-----		Firing mechanism	Actuate safety. Safety will not engage when hammer is forward.	Fig. 2-1
5	-----	-----		Barrel and receiver	Actuate windage knob and pinion assembly of rear sight, make certain they do not bind.	
		8		Barrel and receiver	Check front sight for secure installation. Must be tight.	
9	-----	-----		Bipod	Check yoke jaws for functioning; they must hold securely to rifle.	
		10		Bipod	Clean and lubricate yoke and leg assemblies.	Par. 3-2i.

*Indicates oil for below 0 degrees.

**Indicates for sandy or dusty conditions.

3-10. Preventive Maintenance by Organizational Armorer.

a. The services performed and all deficiencies and short-comings discovered during per-

formance will be recorded as specified in TM 38-750.

b. The necessary preventive-maintenance services performed by organizational maintenance are listed in table 3-3.

Table 3-3 Preventive Maintenance Checks & Services

Organizational Function		Monthly	Schedule
Sequence number	Item to be inspected	Procedure	Paragraph reference
1	Firing Mechanism	Check for proper functioning of safety. Safety will not engage when hammer is forward.	Fig. 2-1
2	Firing Mechanism	Inspect magazine latch: must hold magazine in rifle.	
3	Firing Mechanism	Check housing of firing mechanism: must bear equal pressure on both sides of stock assembly.	
4	Stock with butt plate assembly and hand guard assembly (M14)	Check for cracks, breakage or damage, and for dry condition of wood.	Table 3-5
5	Stock with butt plate assembly and hand guard assembly (M14)	Check butt plate assembly, must be secure to stock.	Table 3-5
6	Stock with butt late assembly and hand guard assembly (M14)	Inspect hand guard for cracks.	Table 3-5
7	Stock assembly (M14A1)	Check for cracks, breakage or damage, and for dry condition of wood.	Table 3-5
8	Stock assembly (M14A1)	Check rest assembly and hand grip assembly, must be secure to stock.	Table 3-5

Section IV. TROUBLESHOOTING

3-11. General.

Refer to table 3-4.

Table 3-4 Troubleshooting

Malfunction	Probable cause	Corrective action
Failure to load	7.62-MM Rifles, M14 and M14A1	
	Dirty or deformed ammunition.	Clean or replace.
	Damaged magazine tube.	Replace magazine.
	Dirty magazine.	Clean.
Magazine inserts with difficulty	Damaged or broken spring.	Replace magazine.
	Damaged or broken follower.	Replace magazine.
	Loose or damaged floor plate.	Replace magazine.
	Bent or deformed magazine.	Replace magazine.
	Excessive dirt in receiver or on magazine.	Clean.
	Round not completely seated in magazine.	Remove round and insert properly.
	Deformed or damaged operating rod spring guide.	Evacuate to direct support maintenance.

Table 3-4 Troubleshooting - Continued

Malfunction	Probable cause	Corrective action
Magazine inserts with difficulty —continued	Deformed or damaged magazine latch.	Evacuate to direct support maintenance.
	Magazine latch movement restricted.	Check movement; clean if necessary. If bent or distorted evacuate to direct support maintenance.
Magazine not retained in weapon	Magazine latch damaged or deformed.	Evacuate to direct support maintenance.
	Magazine latch spring damaged or deformed.	Evacuate to direct support maintenance.
	Magazine latch plate damaged or missing.	Replace magazine.
	Deformed or damaged operating rod spring guide.	Evacuate to direct support maintenance.
	Locking recess at top front of magazine deformed.	Replace magazine.
	Magazine not fully installed.	Remove and install properly (make certain latch clicks).

Table 3-4 Troubleshooting - Continued

Malfunction	Probable cause	Corrective action
Failure to feed	Weak or broken magazine spring.	Replace magazine.
	Damaged or deformed magazine.	Replace magazine.
	Damaged or deformed stripping lug on bolt.	Evacuate to direct support maintenance.
	Short recoil.	See "short recoil".
	Dirty ammunition and/or magazine.	Clean ammunition and magazine, as required.
	Weak or broken operating rod spring.	Replace spring.
	Restricted movement of, or damaged operating rod.	Evacuate to direct support maintenance.
	Cartridge case holding bolt out of battery.	Pull bolt to rear and remove deformed cartridge. Clean ammunition and/or barrel chamber.
	Dirty chamber.	Clean barrel and chamber.
	Extractor does not snap over rim of cartridge base.	Clean bolt assembly and extractor recess in breech face of barrel. Replace worn extractor and/or spring and plunger assembly.
Bolt fails to close tightly	Frozen or blocked ejector spring and plunger.	Replace ejector.
	Restricted movement of, or damaged operating rod.	Evacuate to direct support maintenance.
	Bolt not fully rotated and locked in receiver.	Remove burrs or foreign substances restricting bolt movement.
	Weak or broken operating rod spring.	Replace spring.
	Damaged receiver.	Evacuate to direct support maintenance.
	Bolt not fully forward and locked.	See "bolt fails to close tightly".
	Defective ammunition.	Follow procedures for misfires, etc.

Table 3-4 Troubleshooting - Continued

Malfunction	Probable cause	Corrective action
Failure to fire - continued	Firing pin worn, damaged, or movement restricted.	Clean bolt as required or replace firing pin. Visually inspect firing pin protrusion at face of bolt.
	Broken hammer.	Evacuate to direct support maintenance.
	Weak or broken hammer spring.	Replace hammer spring.
	Hammer lugs, trigger lugs, or sear worn or broken sufficiently to cause hammer to ride the bolt forward.	Evacuate to direct support maintenance.
	Gas plug loose or missing.	Tighten plug or replace.
	Restricted movement of operating rod assembly.	Inspect for cause of interference, correct or evacuate to direct support maintenance.
	Bolt binding.	Clean receiver, correct or evacuate to direct support maintenance.
	Gas cylinder not fully installed (blocks gas port).	a. Remove gas cylinder plug. b. Loosen gas cylinder lock. c. Push the gas cylinder down as far as it will go using hand pressure only. d. Tighten gas cylinder lock as far as it will go, then back off lock, one half turn to enable installation of gas cylinder plug. e. Install gas cylinder plug and tighten with a light pull.
	Gas piston restricted.	Clean gas cylinder and piston. Evacuate to direct support maintenance, if damaged.
Short recoil		

Table 3-4 Troubleshooting - Continued

Malfunction	Probable cause	Corrective action
Short recoil - continued	Damaged connector assembly.	Evacuate to direct support maintenance.
	Partially closed spindle valve.	Turn valve to vertical position at right angle to bore.
	Improper lubrication in cold weather.	Clean and lubricate properly.
Failure to extract	Defective ammunition.	Replace ammunition.
	Spindle valve closed.	Open spindle valve.
	Cartridge seized in chamber (sheared rim).	Remove cartridge and clean chamber. Also, clean ammunition, if necessary.
	Short recoil.	See "short recoil".
	Damaged or deformed extractor.	Replace extractor.
	Weak, deformed, or frozen extractor plunger assembly.	Replace plunger assembly.
	Ruptured or separated cartridge.	Remove cartridge casing. Evacuate to direct support maintenance.
Failure to eject	Short recoil.	See "short recoil".
	Weak, deformed, or frozen ejector spring and plunger.	Replace ejector assembly.

Table 3-4 Troubleshooting - Continued

Malfunction	Probable cause	Corrective action
Failure to hold bolt rearward	Damaged or deformed magazine follower.	Replace magazine.
	Damaged or deformed bolt lock.	Evacuate to direct support maintenance.
	Bolt lock movement restricted.	Clean bolt lock recess in receiver. If not corrected, evacuate to direct support maintenance.
RIFLE BIPOD M2	Weak or broken magazine spring.	Replace magazine.
	Fails to clamp or lock securely	Heavy accumulation of grease, dirt, or oil.
		Locking bolt not tight.
		Clean and lubricate yoke assembly as required.
		Tighten as required. If threads are stripped, evacuate to direct support maintenance.
	Left hand jaw and right hand jaw assembly reversed.	Evacuate to direct support maintenance, to be disassembled and assembled properly.

Section V. OPERATORS MAINTENANCE

3-12. General.

This section describes operators maintenance of the rifles and bipod under normal conditions. For maintenance under adverse conditions refer to chapter 2.

3-13. Disassembly and Assembly.

The major groups and assemblies for M14

and M14A1 Rifles are shown in figures 3-2 and 3-3. For removal and installation of these groups and assemblies refer to figures 3-4 through 3-6.

Note. White arrows indicate disassembly, black arrows assembly.

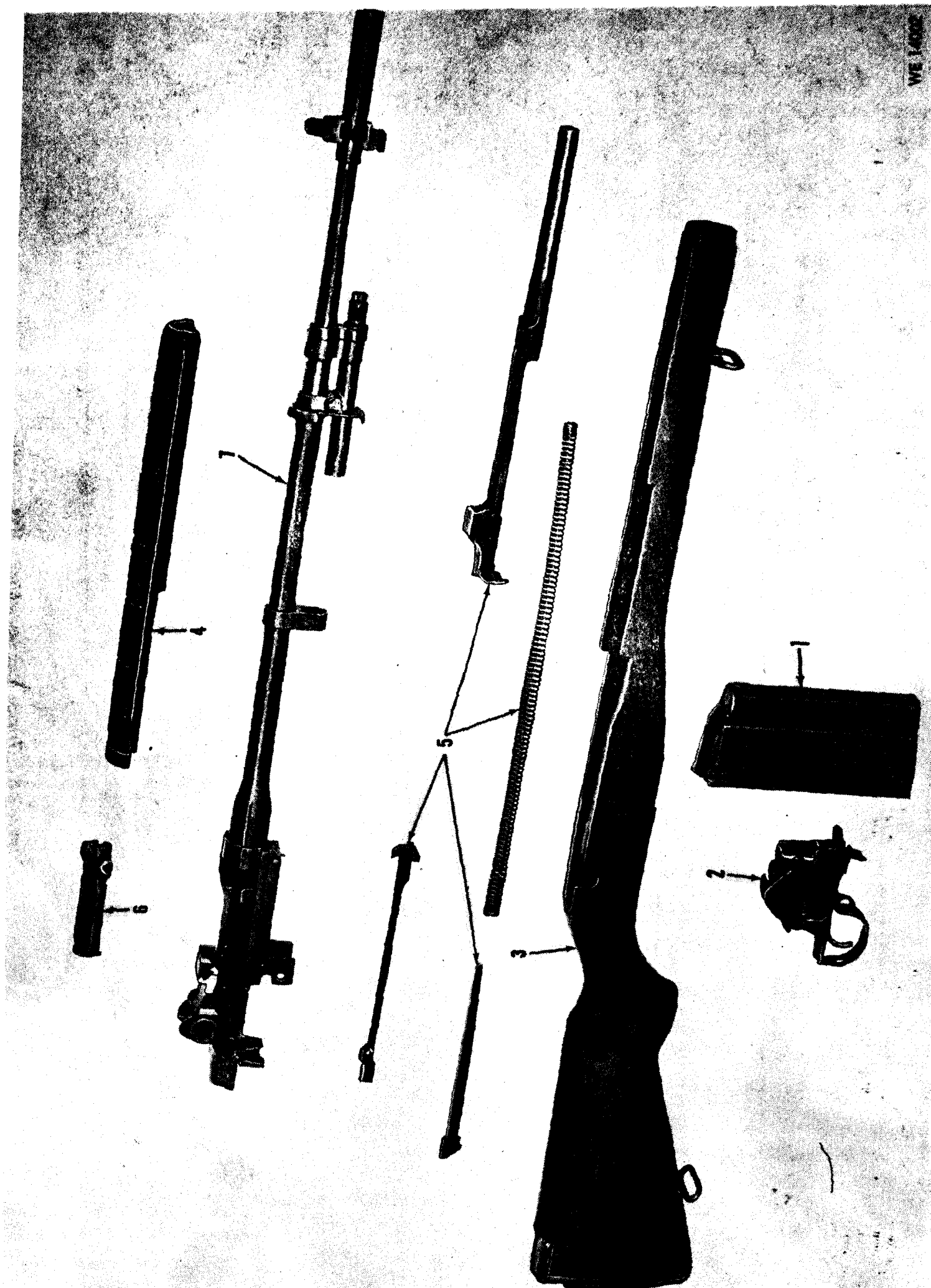


Figure 3-2. Groups and assemblies - M14 Rifle.



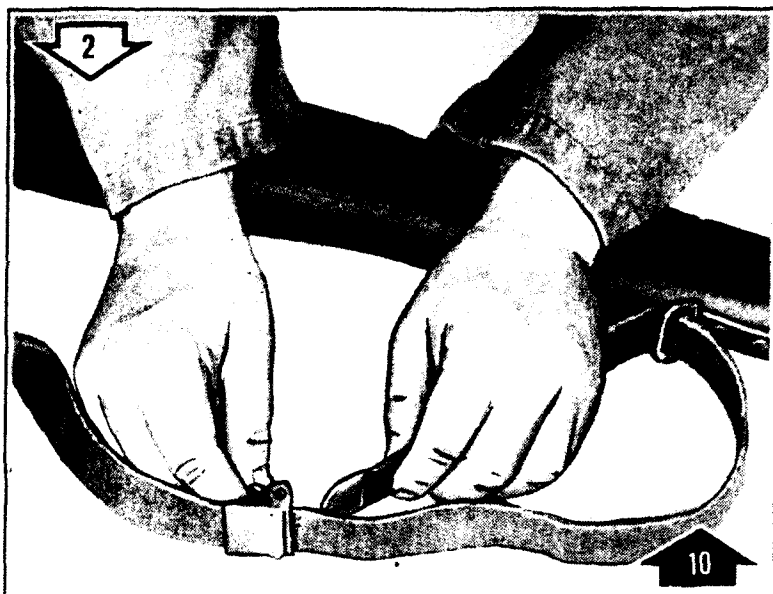
Figure 3-3. Groups and assemblies - M14A1 Rifle.



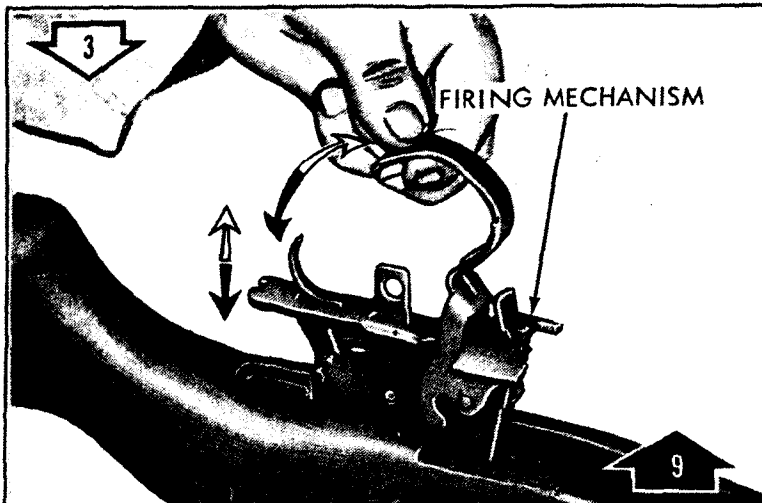
REMOVE MAGAZINE.



INSTALL MAGAZINE

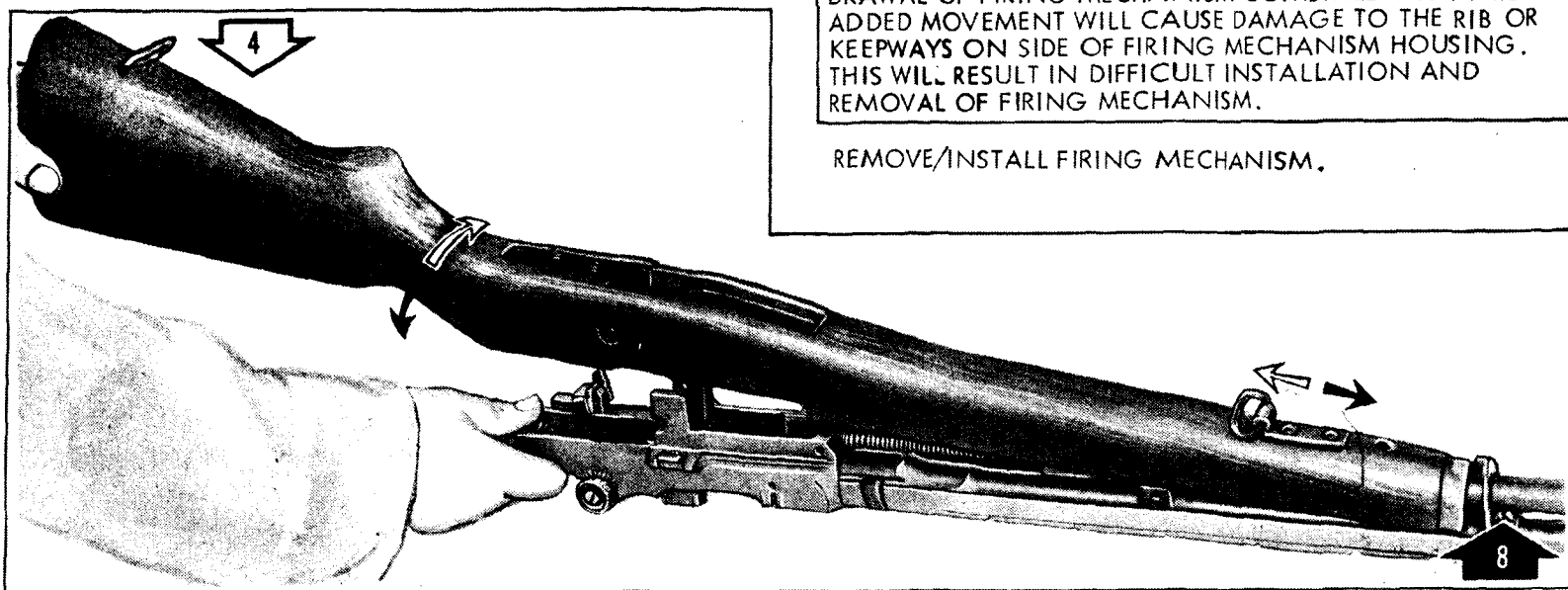


REMOVE/INSTALL SLING.



CAUTION: OVER 90 DEGREES ROTATIONAL MOVEMENT, TOWARDS THE MUZZLE, CAN BE FELT WHEN THE COCKING STUD OF THE TRIGGER GUARD ENGAGES POINT AT BASE OF HAMMER, WORKING AGAINST HAMMER SPRING TENSION. THE FIRING MECHANISM SHOULD BE REMOVED BEFORE THIS POSITION IS REACHED. PARTIAL WITHDRAWAL OF FIRING MECHANISM COMBINED WITH THIS ADDED MOVEMENT WILL CAUSE DAMAGE TO THE RIB OR KEEPWAYS ON SIDE OF FIRING MECHANISM HOUSING. THIS WILL RESULT IN DIFFICULT INSTALLATION AND REMOVAL OF FIRING MECHANISM.

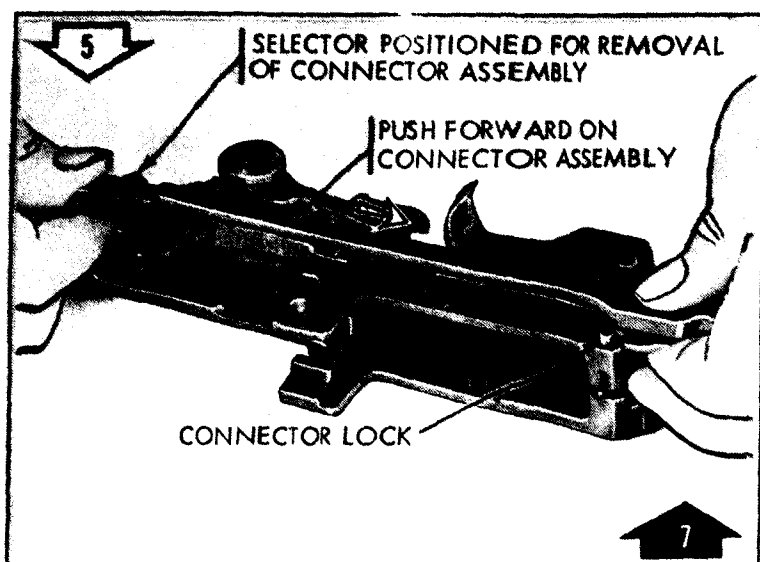
REMOVE/INSTALL FIRING MECHANISM.



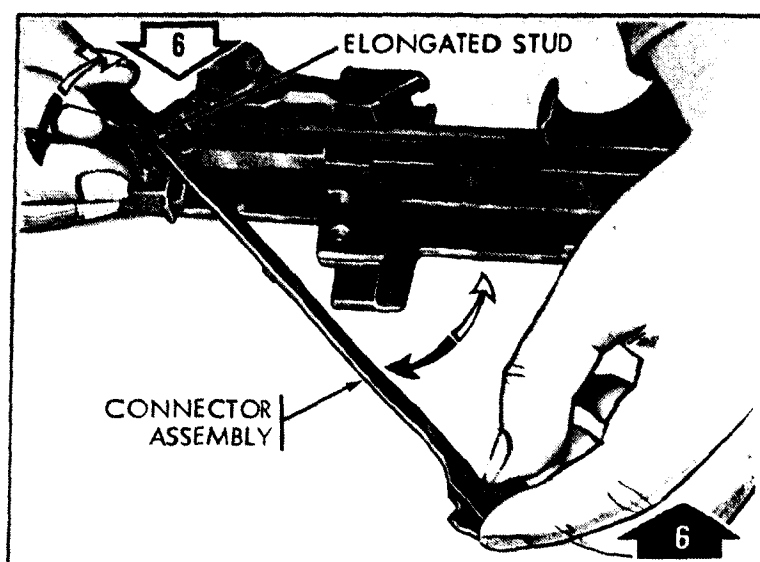
REMOVE/INSTALL STOCK WITH BUTT PLATE ASSEMBLY.

WE 14004

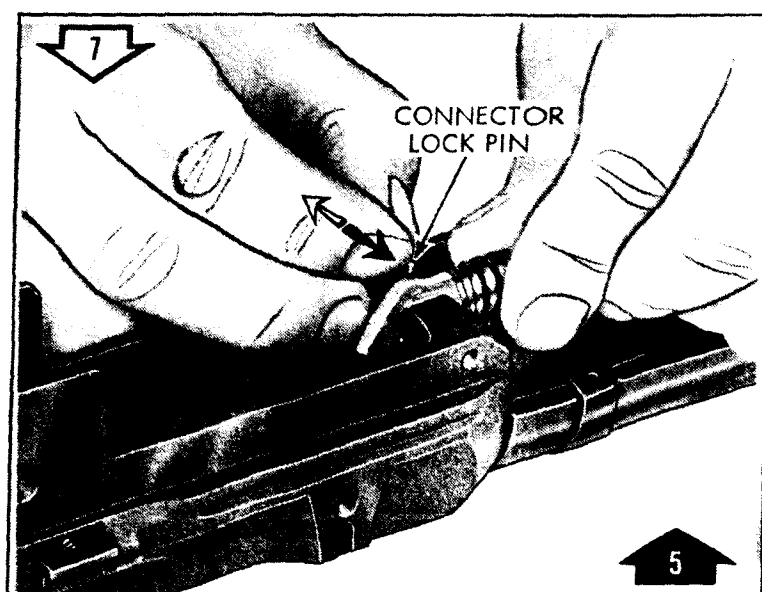
Figure 3-4. Disassembly/assembly - M14 Rifle.



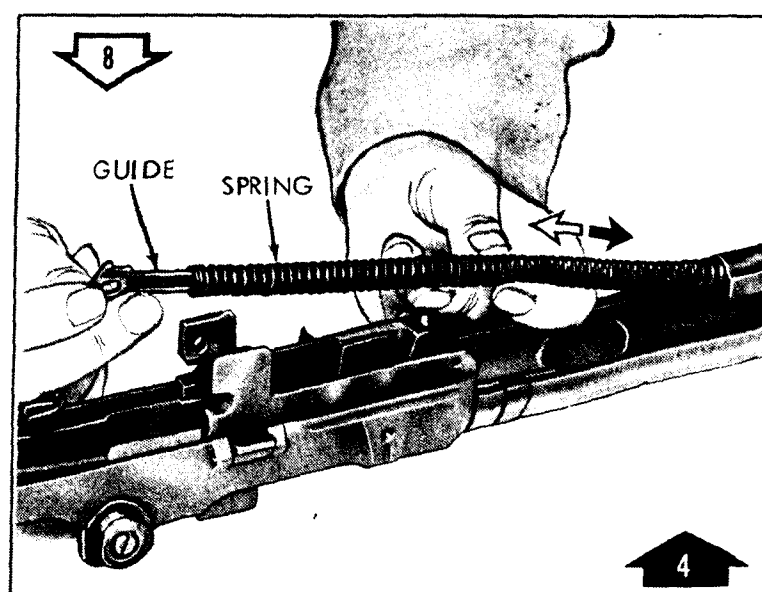
5
DISENGAGING/ENGAGING CONNECTOR ASSEMBLY.



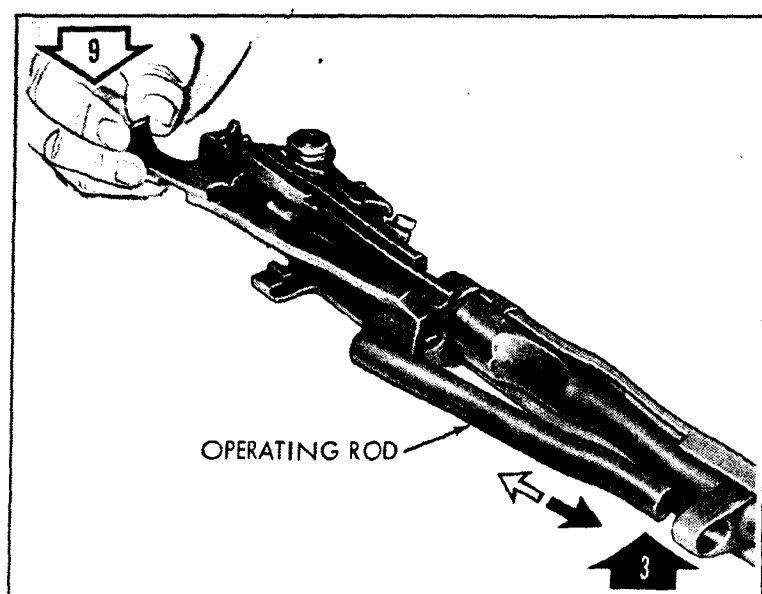
6
REMOVE/INSTALL CONNECTOR ASSEMBLY.



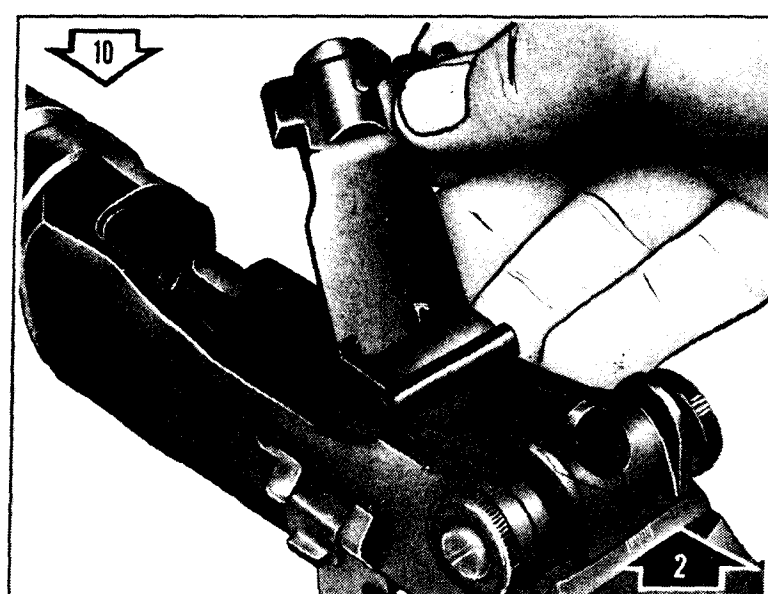
7
DISENGAGE/ENGAGE CONNECTOR LOCK.



8
REMOVE/INSTALL OPERATING ROD SPRING GUIDE AND OPERATING ROD SPRING.



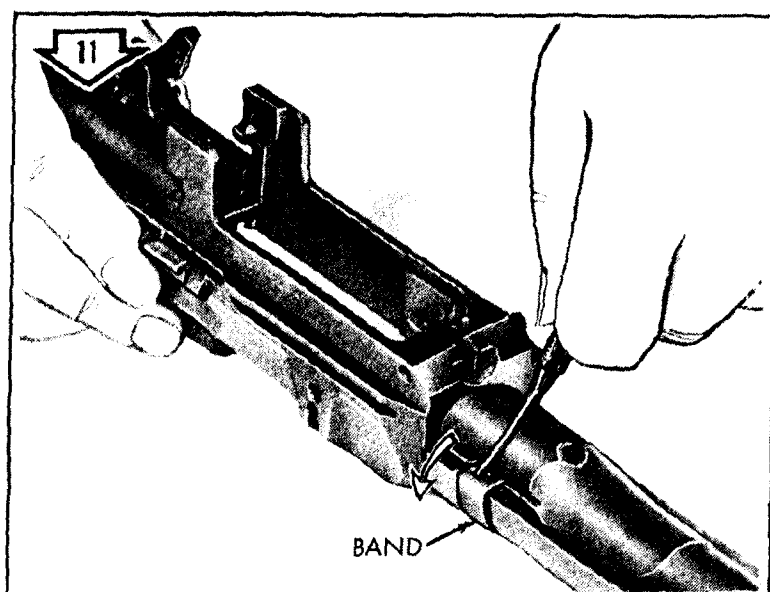
9
REMOVE/INSTALL OPERATING ROD.



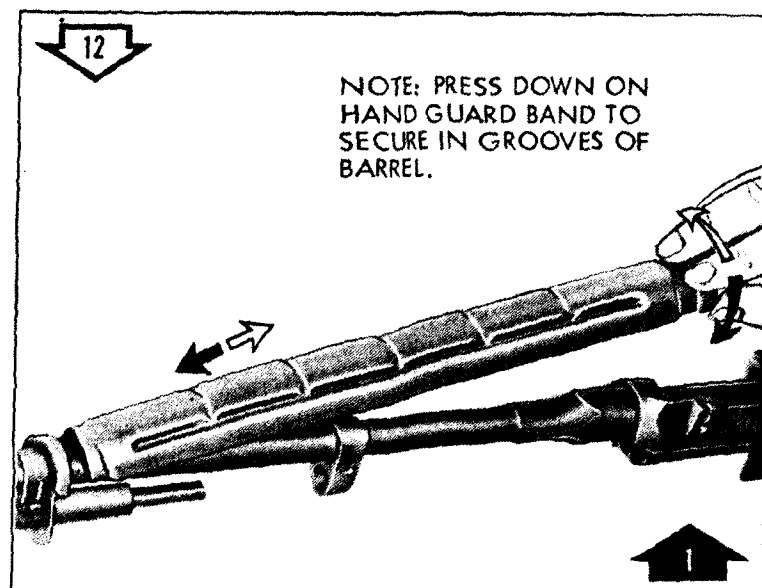
10
REMOVE/INSTALL BOLT ASSEMBLY.

WE 14497

Figure 3-5. Disassembly/assembly - M14 Rifle.



11
DISENGAGE HAND GUARD BAND.



12
REMOVE/INSTALL HAND GUARD.

WE 14498

Figure 3-6. Disassembly/assembly - M14 Rifle.

Section VI. ORGANIZATIONAL MAINTENANCE PROCEDURES

3-14. General.

This section describes the organizational maintenance for Rifles M14 and M14A1.

3-15. Disassembly/Assembly of Major Groups and Assemblies.

Note. White arrows indicate disassembly, black arrows, assembly.

Refer to figures 3-4 through 3-6 for removal and installation of major groups and assemblies. Disassembly and assembly is authorized for organizational maintenance as follows.

3-16. Maintenance of Firing Mechanism.

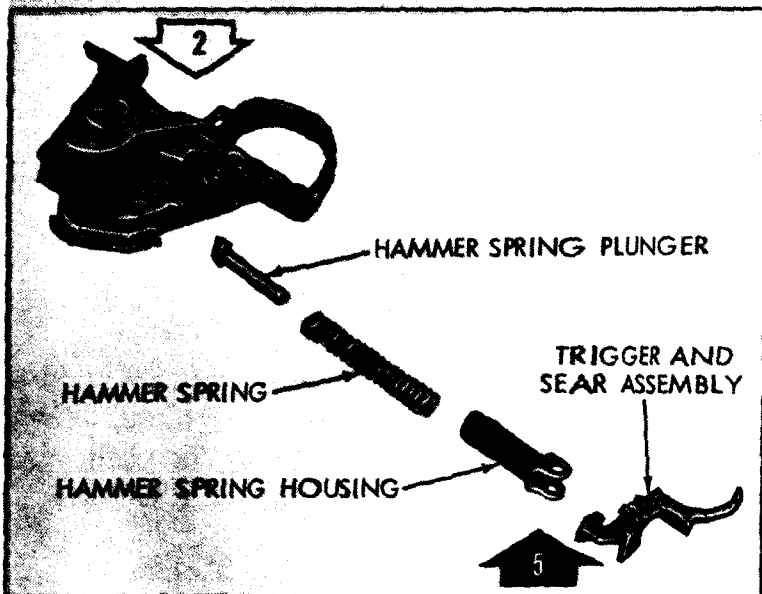
Refer to figures 3-7 and 3-8 and table 3-5 for disassembly and assembly.



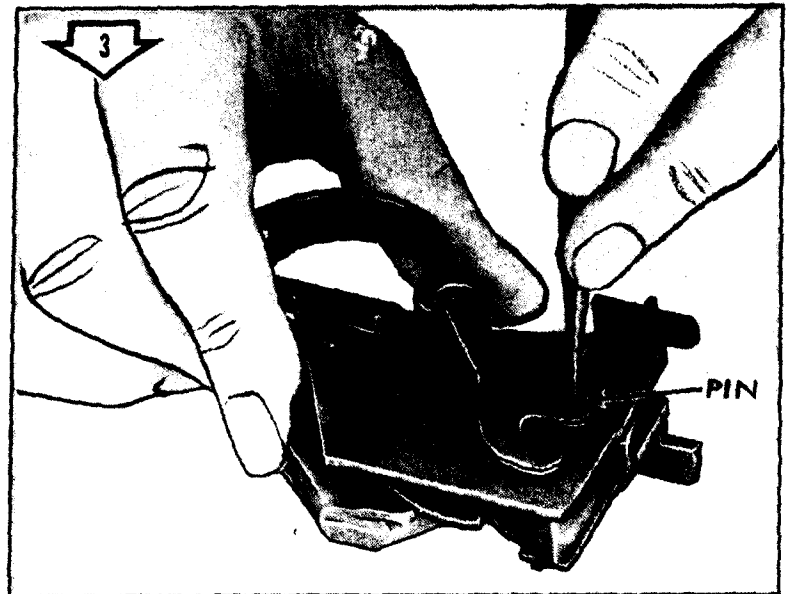
REMOVE TRIGGER PIN.



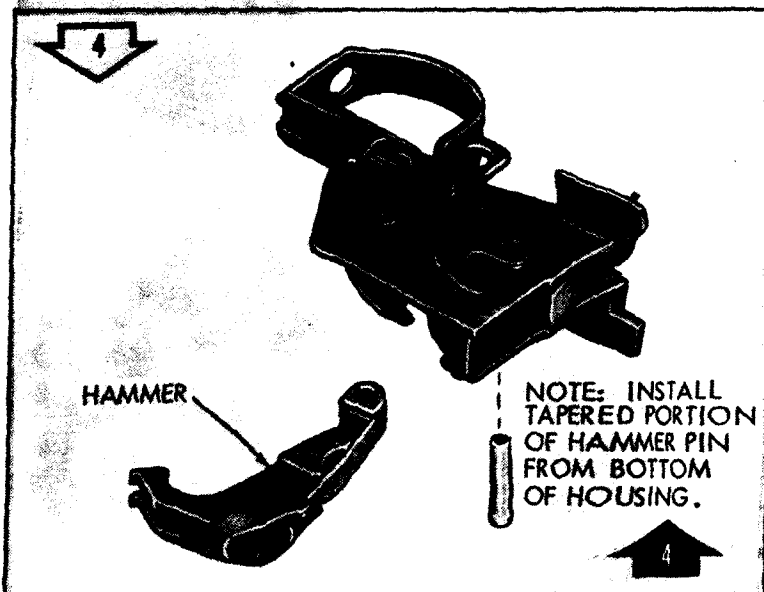
INSTALL TRIGGER PIN.



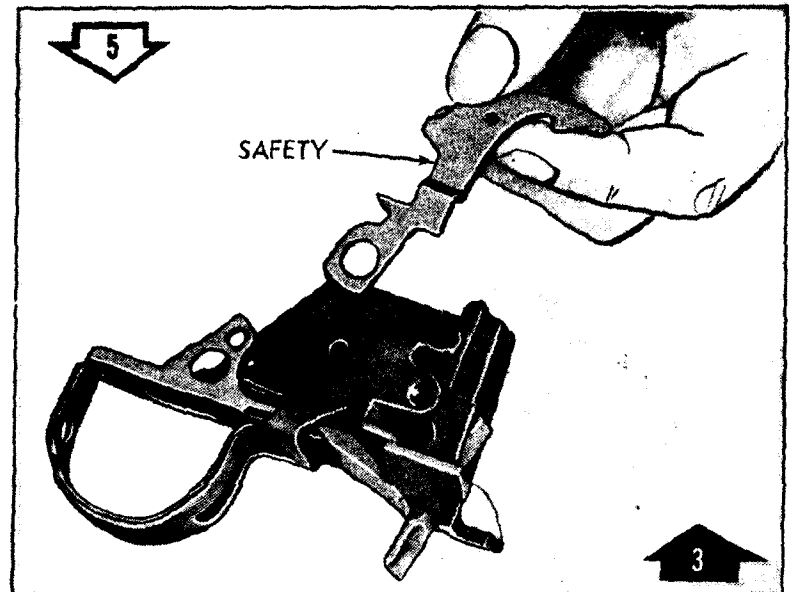
REMOVE/INSTALL TRIGGER AND SEAR ASSEMBLY, HAMMER SPRING HOUSING, HAMMER SPRING, AND HAMMER SPRING PLUNGER.



REMOVE HAMMER PIN.



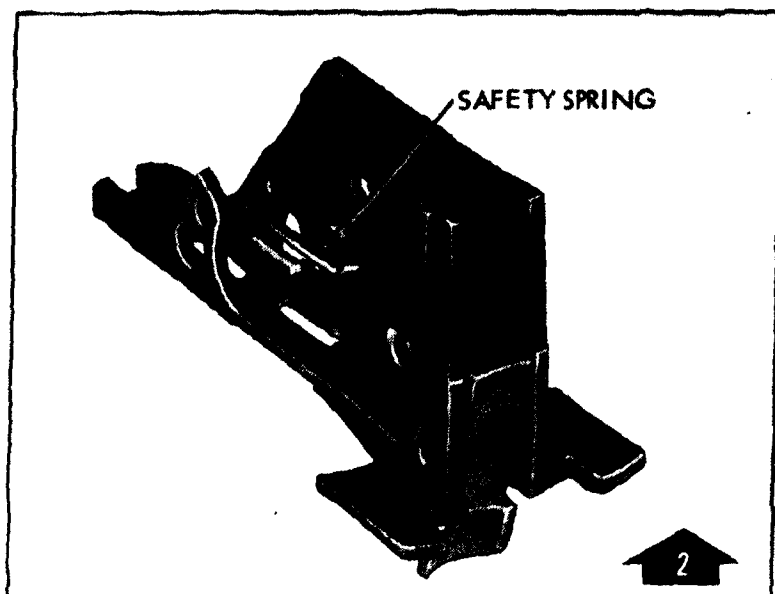
REMOVE/INSTALL HAMMER AND INSTALL HAMMER PIN.



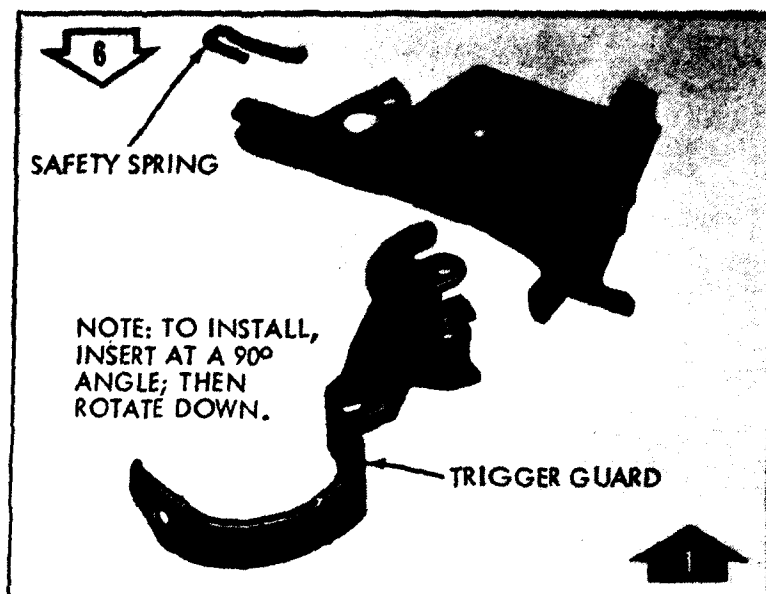
REMOVE/INSTALL SAFETY.

WE 14007

Figure 3-7. Disassembly/assembly of firing mechanism.



POSITION OF SAFETY SPRING AFTER INSTALLATION.



REMOVE/INSTALL TRIGGER GUARD AND SAFETY SPRING.

WE 14495

Figure 3-8. Disassembly/assembly of firing mechanism.

3-17. Maintenance of Stock with Butt Plate Assembly (M14 Rifle) Stock Assembly (M14A1 Rifle) and Hand Guard Assembly.

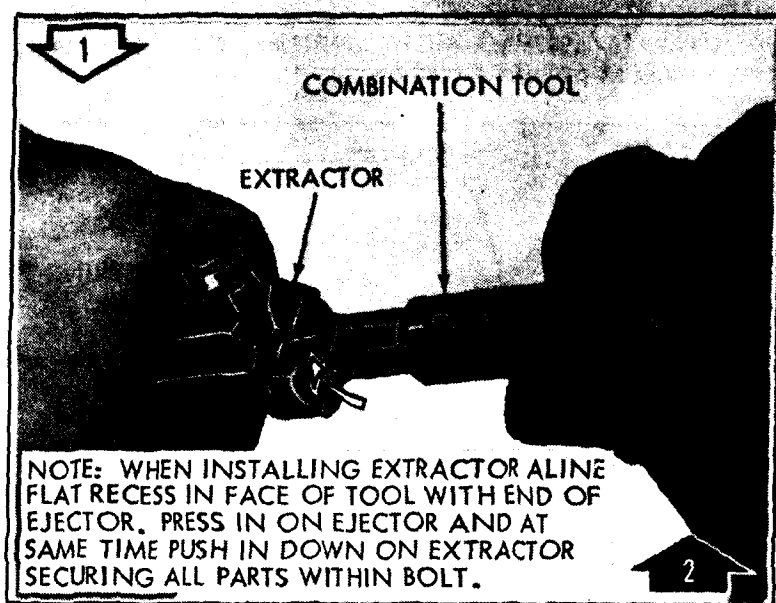
Note. No further disassembly is authorized at organizational maintenance level.

3-18. Maintenance of Operating Rod and Connector Group.

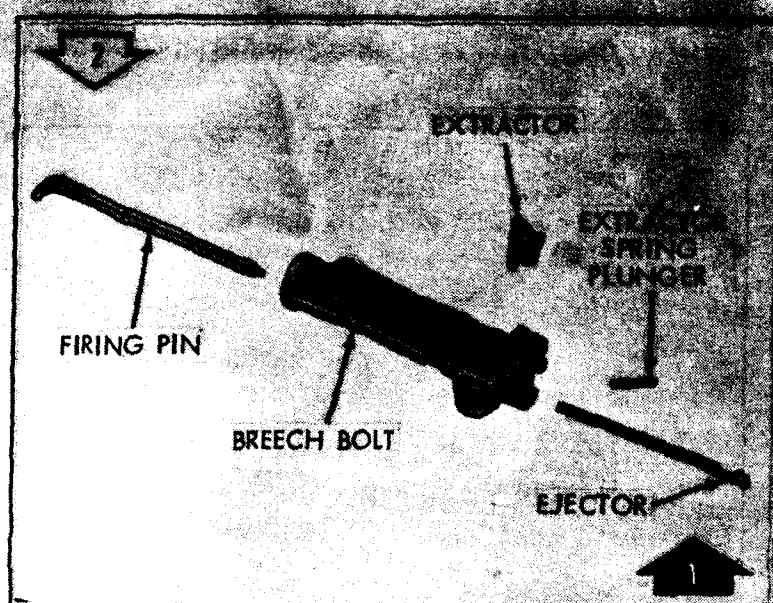
Note. No further disassembly is authorized at organizational maintenance level.

3-19. Maintenance of Belt Assembly.

Refer to figure 3-9 and table 3-5 for disassembly and assembly.



REMOVE/INSTALL CARTRIDGE EXTRACTOR.



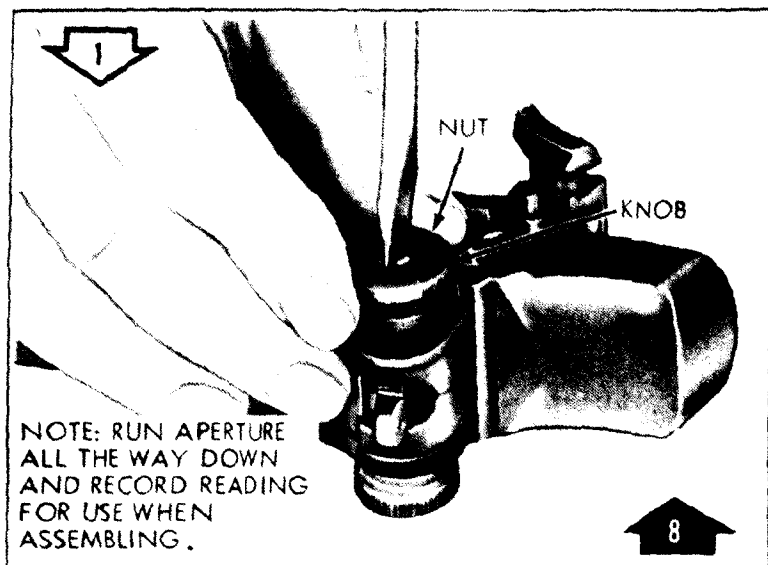
REMOVE/INSTALL EXTRACTOR SPRING PLUNGER, EJECTOR, AND FIRING PIN.

WE 14005

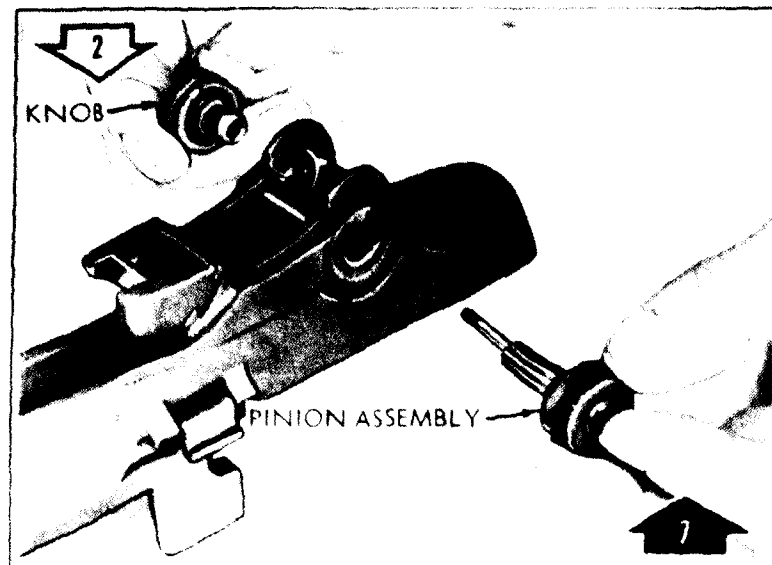
Figure 3-9. Disassembly/assembly of bolt assembly.

3-20. Maintenance of Barrel and Receiver Group.

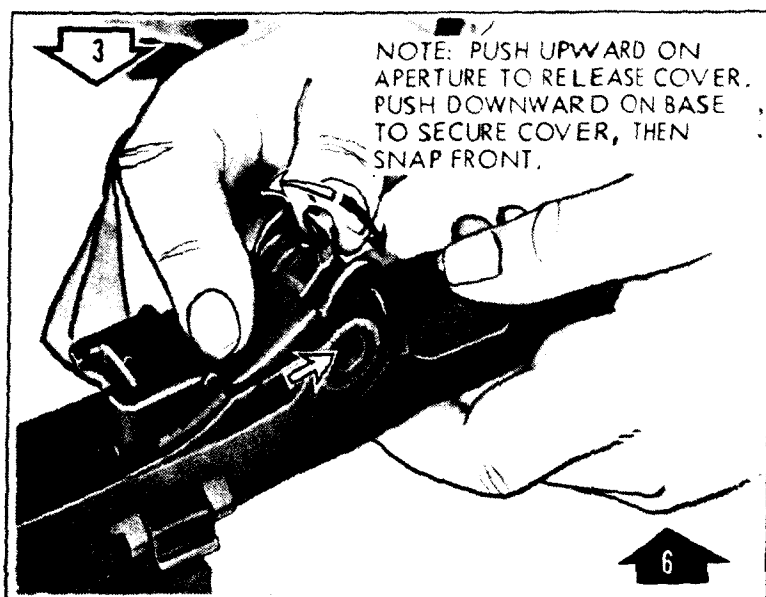
Refer to figures 3-10 and 3-11 and table 3-5 for disassembly and assembly.



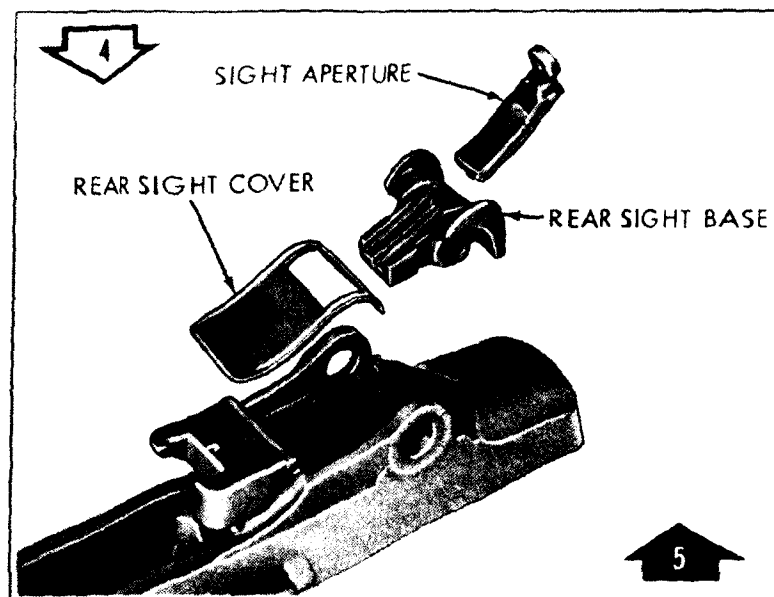
LOOSEN/TIGHTEN WINDAGE KNOB RETAINING NUT.



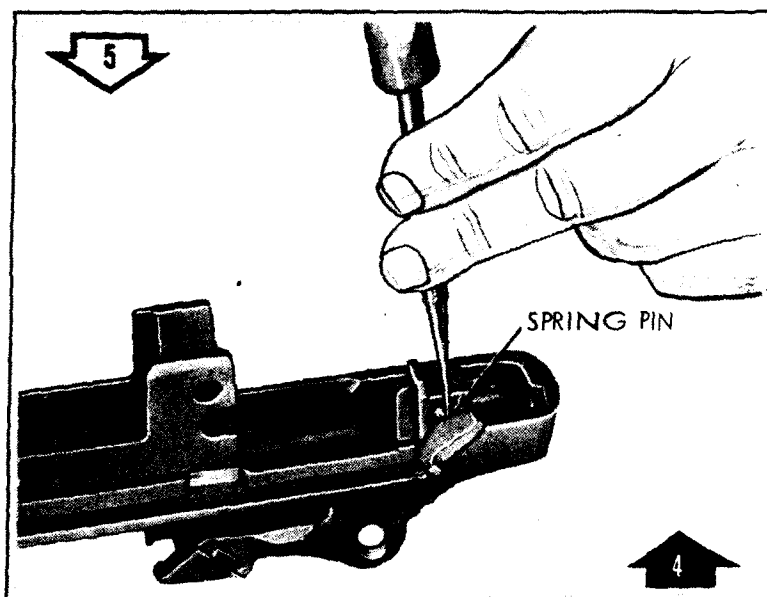
REMOVE/INSTALL WINDAGE KNOB AND PINION ASSEMBLY.



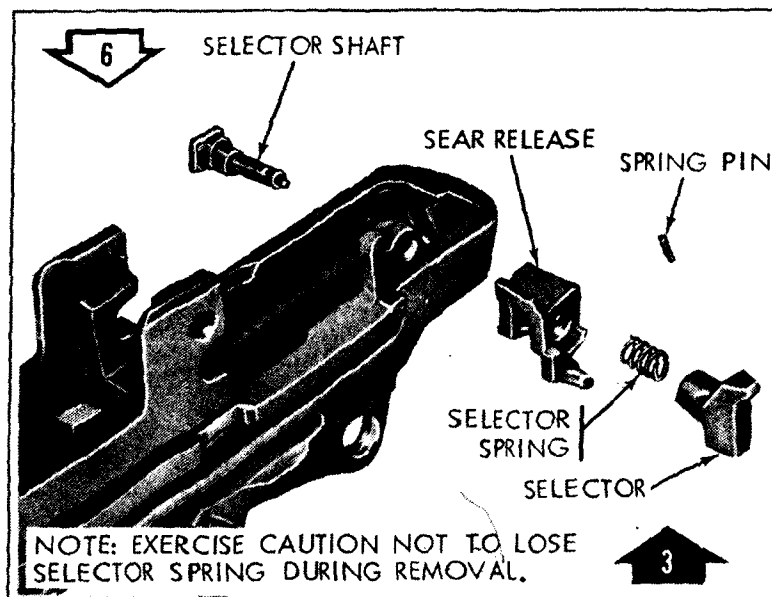
REMOVE/INSTALL REAR SIGHT COMPONENTS.



SEPARATE/ASSEMBLE SIGHT APERTURE, REAR SIGHT BASE, AND REAR SIGHT COVER.



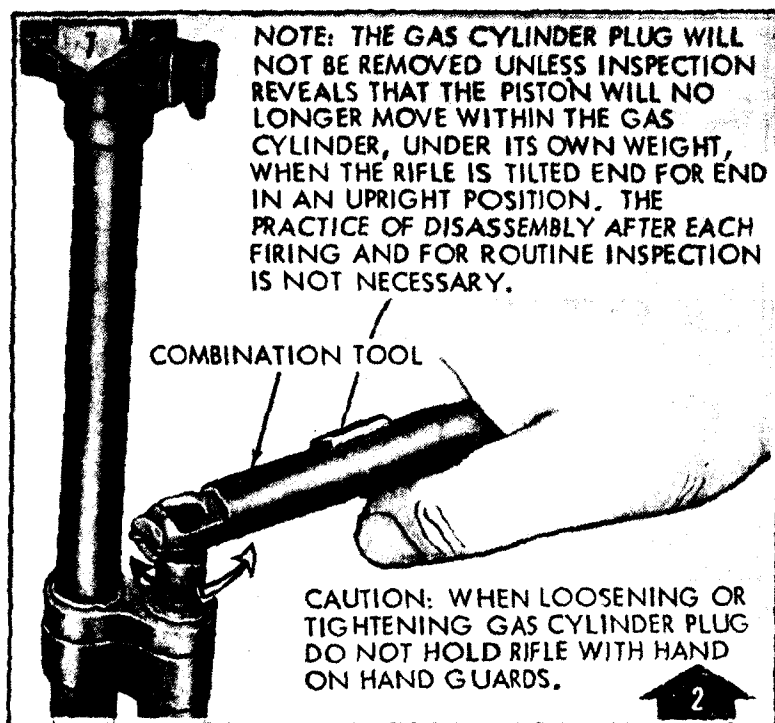
REMOVE/INSTALL SPRING PIN.



REMOVE/INSTALL SELECTOR OR SELECTOR SHAFT LOCK (M14 ONLY), SELECTOR SPRING, SEAR RELEASE, AND SELECTOR SHAFT.

WE 14009

Figure 3-10. Disassembly/assembly of barrel and receiver group.



REMOVE/INSTALL GAS CYLINDER PLUG.



REMOVE/INSTALL GAS CYLINDER PISTON.

WE 14496

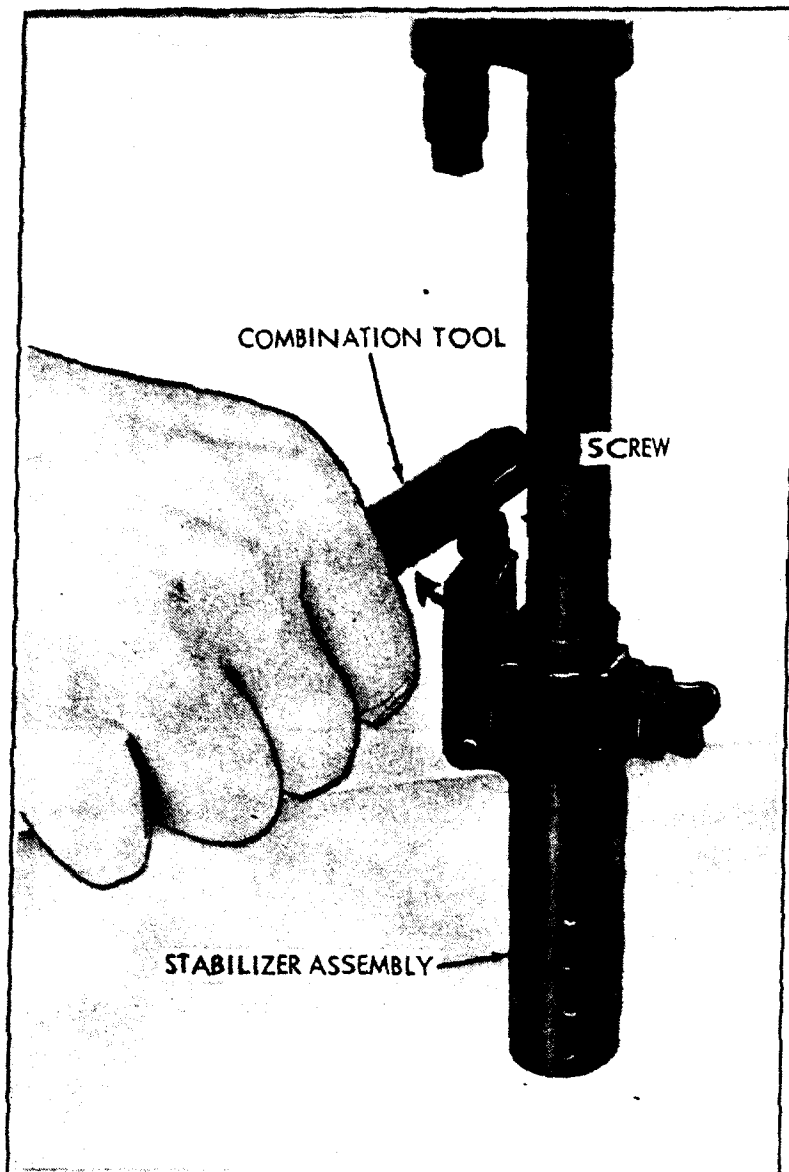
Figure 3-11. Disassembly/assembly of barrel and receiver group.

3-21. Maintenance of Rifle Bipod M2.

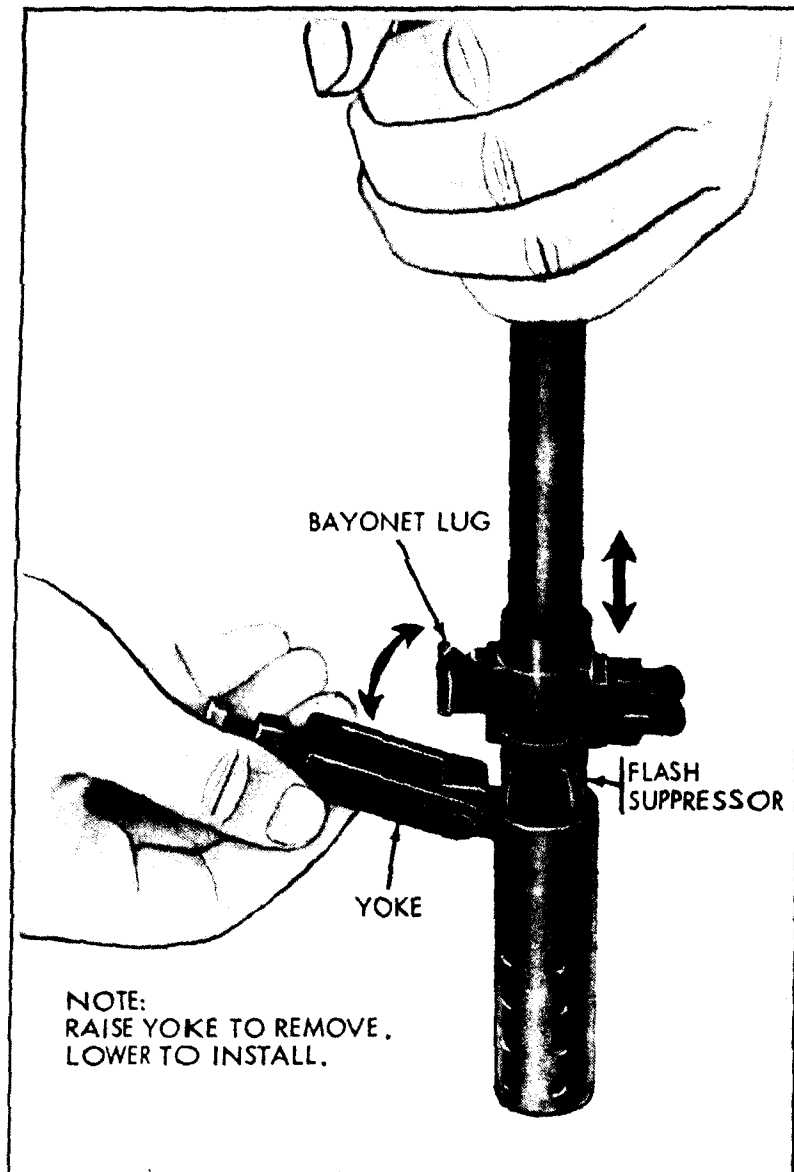
Refer to figures 1-4 and 1-10, and table 3-5.

3-22. Maintenance of Stabilizer Assembly (M14A1 only).

Refer to figure 3-12 and table 3-5.



A - LOOSEN/TIGHTEN RETAINING SCREW.



B - DISENGAGE/ENGAGE YOKE.

WE 1401B

Figure 3-12. Removal/installation of stabilizer assembly.

Table 3-5. Organizational Maintenance of Individual Groups and Assemblies

Group or assembly	Removal/ installation	Disassembly/ assembly	Inspection and repair	Cleaning
Firing mechanism	Fig. 3-4	Figs. 3-7 and 3-8	Inspect and remove burs. Replace distorted, damaged, worn, and broken parts. Inspect for weak, broken or kinked springs and replace. Inspect for broken or damaged pins and replace.	Par. 3-2
Stock w/butt plate assembly (M14 rifle)	Fig. 3-4	-----	Check for cracks, breakage or damage that would weaken the stock. Check for dry or unoiled condition of wood. Treat with raw linseed oil only. Do not oil inside of stock. Make certain butt plate assembly is secure to stock.	Par. 3-4
Hand guard assembly	Fig. 3-6	-----	Check for cracks and damage. Replace, if cracked or damaged.	
Stock assembly (M14A1)	Fig. 3-3	-----	Check for cracks, breakage or damage and for dry condition of wood. Check hand grip assembly and nut assembly. Make certain they are secure to stock.	Par. 3-4
Bolt assembly	Fig. 3-5	Fig. 3-9	Inspect and remove burs. Replace distorted damaged, worn or broken parts. Inspect for weak, broken and kinked springs. Replace. Inspect firing pin for defects as indicated in examples below. (See figure 3-13.) <i>Example 1.</i> The firing pin should be inspected for pits and/or chips that tend to deform or "point" the tip. Any deformation that interrupts the blunt roundness of the tip is cause for rejection. <i>Example 2.</i> The sloping area of the pin running from the tip rearward should be inspected to determine the presence of "ringing" causes by tool marks at the time of manufacture, or by repeated dry firing exercises. Any surface indents in this area are cause for rejection. <i>Example 3.</i> Near areas that do not present a "ridge" that can be detected by drawing a fingernail across the wear area should not be rejected. If such a "ridge" or shoulder is apparent the pin should be replaced. <i>Note.</i> The firing pin tip should not be filed or stoned to a sharp point. Any firing pin exhibiting chips or cracks in the tip area should be replaced.	Par. 3-2
Barrel and receiver group	Figs. 3-4 through 3-6	Figs. 3-10 and 3-11	Inspect and remove burs. Replace distorted, damaged, worn, or broken parts. Inspect for weak, broken and kinked springs. Replace. Inspect for broken and damaged pins. Replace. Inspect windage knob and pinion assembly. They must not bind. Inspect rear sight for function and looseness. Inspect front sight, make certain it is secure to flash suppressor. Inspect gas cylinder plug, make certain it is secure to gas cylinder. Inspect barrel for ruptured cartridge case. Remove as indicated in figure 3-14. Inspect barrel bore using barrel reflector (fig. 3-15.).	Par. 3-2

Table 3-5. Organizational Maintenance of Individual Groups and Assemblies - Continued

Group or assembly	Removal/installation	Disassembly/assembly	Inspection and repair	Cleaning
Barrel and receiver group - Continued			<i>Note.</i> If contact of round within bore of flash suppressor is observed, the face of the barrel and mating recess in the flash suppressor should be inspected for dirt or other foreign objects. Clean or remove foreign objects that would interfere with the mating surfaces. Inspect flash suppressor for looseness. Tighten flash suppressor nut using flash suppressor pliers. Inspect for missing set screw on flash suppressor - replace. Inspect operating rod guide as follows: - No damage restricting movement of operating rod tab is permitted. - Loose mounting is acceptable unless it causes damage to or restricts movement of operating rod.	
Rifle bipod M2 (M14A1 rifle only)	Figs. 1-9 and 1-10. With combination tool loosen bolt beneath yoke and remove bipod. To install encircle gas cylinder with jaws and tighten blot.	Fig. C-8	Check functioning of jaws, plungers, and leg assemblies. Caution. Do not remove bolt from jaw assembly.	Par. 3-2i
Stabilizer assembly (M14A1 rifle only)	Fig. 3-12.		Inspect for cracks at body of stabilizer and yoke. Check for worn or stripped threads of retaining screw. Make certain it does not bind. If unserviceable, evacuate to direct support maintenance level.	

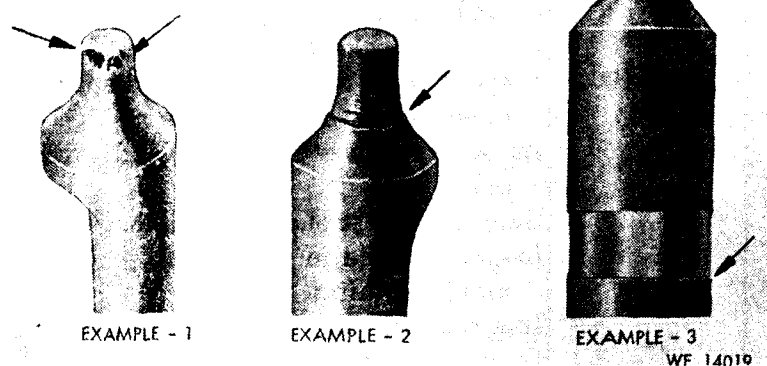


Figure 3-13 Firing pin - inspection points

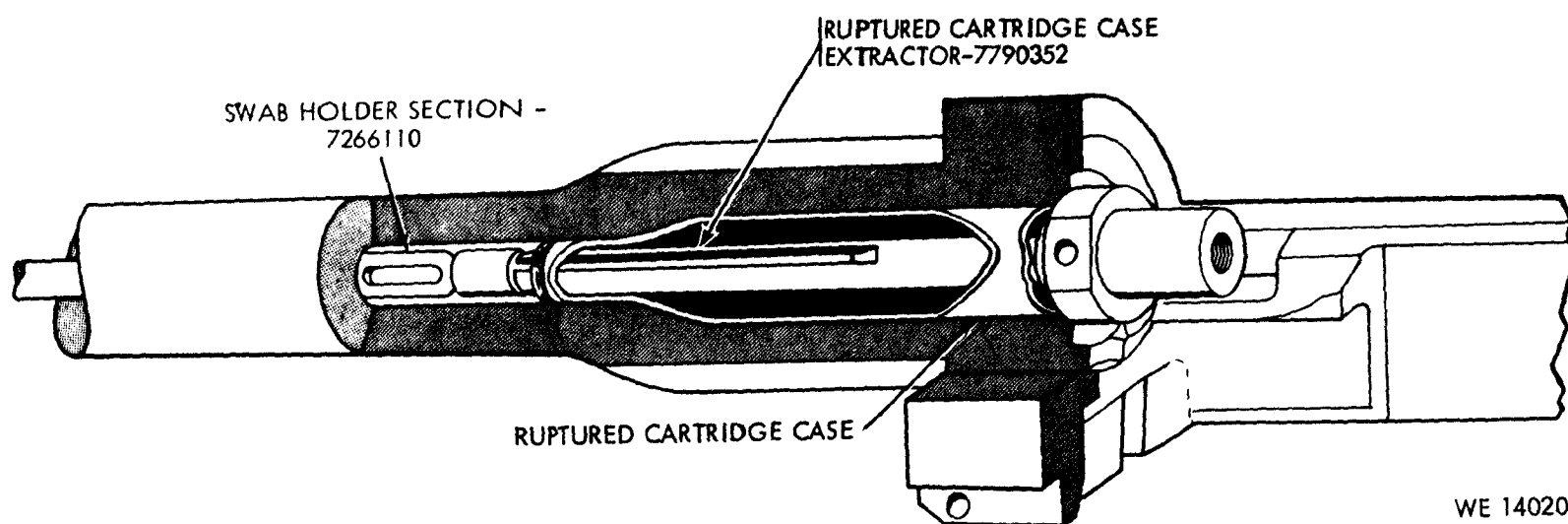
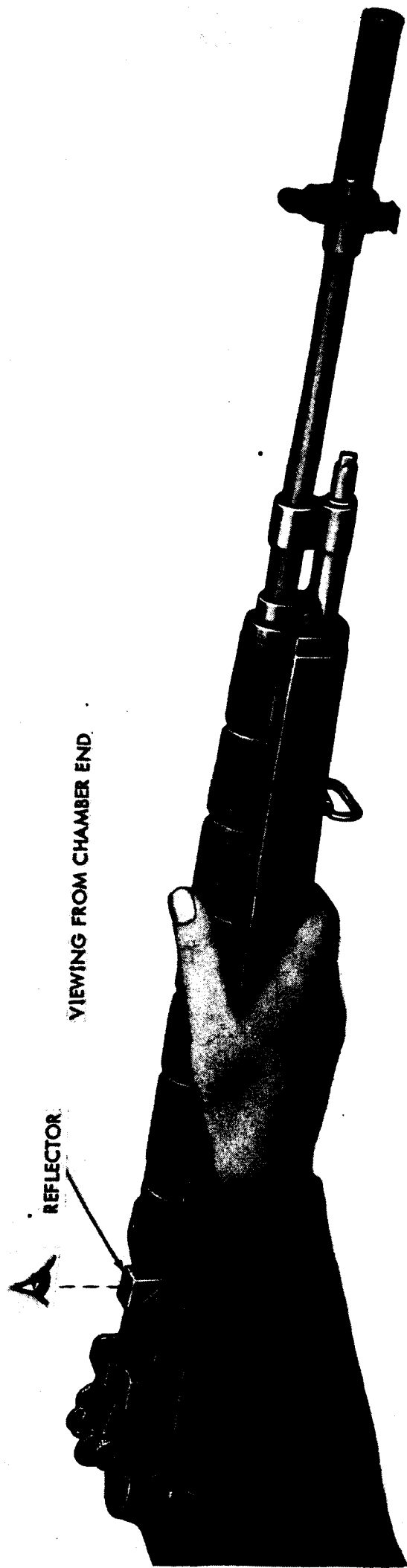


Figure 3-14. Removal of rupture cartridge case.



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Figure 3-15. Inspection of barrel using barrel reflector.

3-23. Maintenance of Accessories.

a. Refer to figures 3-16 through 3-18 and table 3-6.

b. The accessories are to be removed for

cleaning purposes only as there are no repair parts authorized at organizational level. For specific cleaning instructions refer to paragraph 3-2.

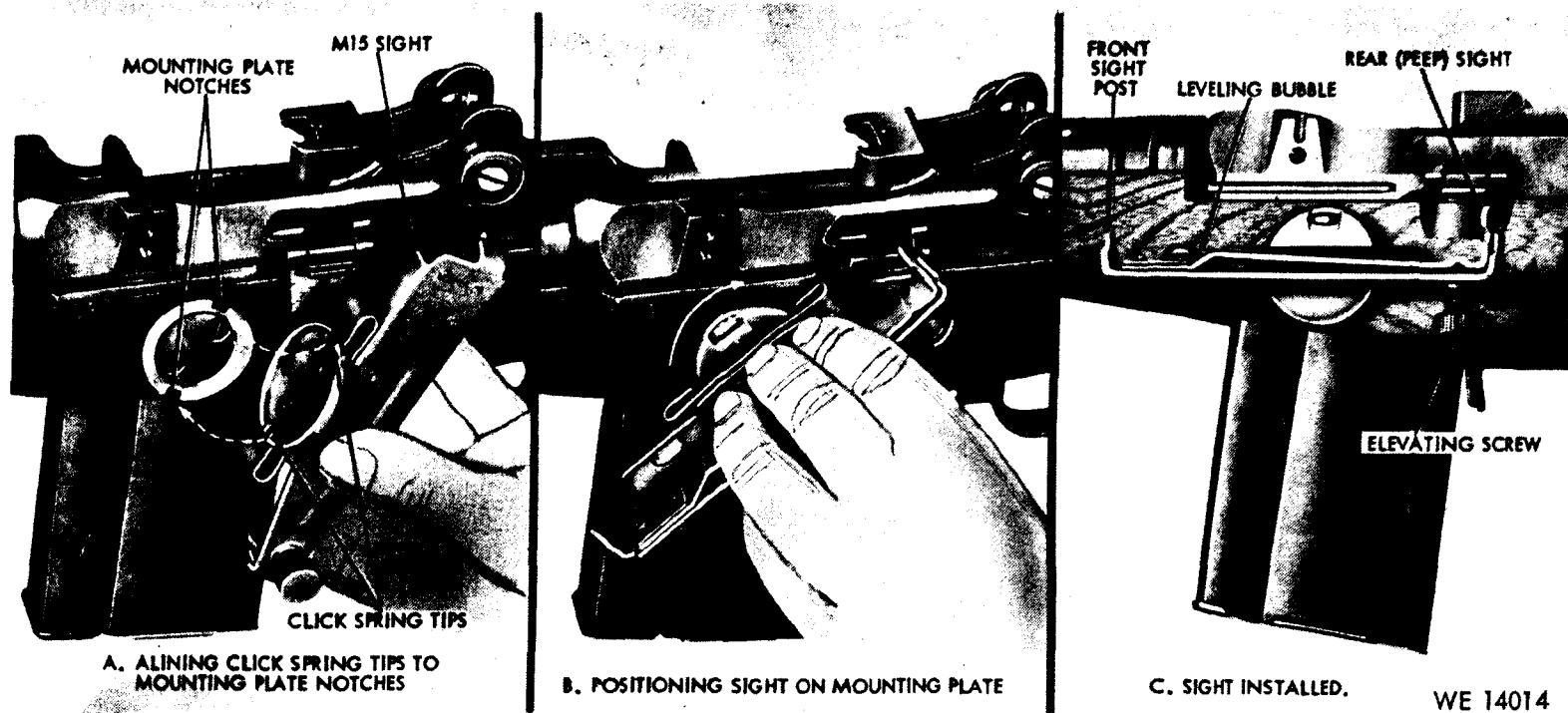


Figure 3-16. Remove/install Grenade Launcher Sight M15.

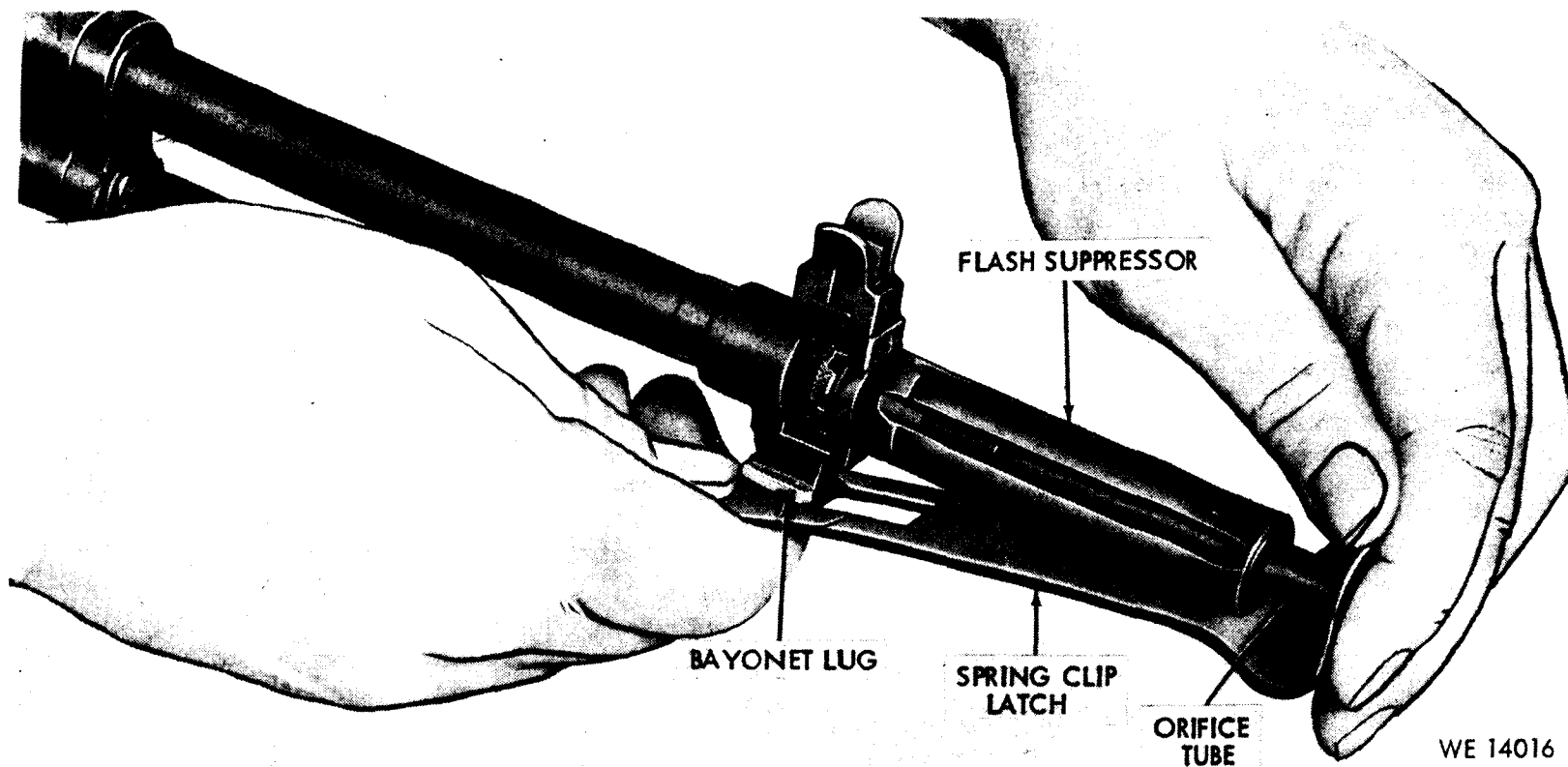


Figure 3-17. Remove/install blank ammunition firing attachment.

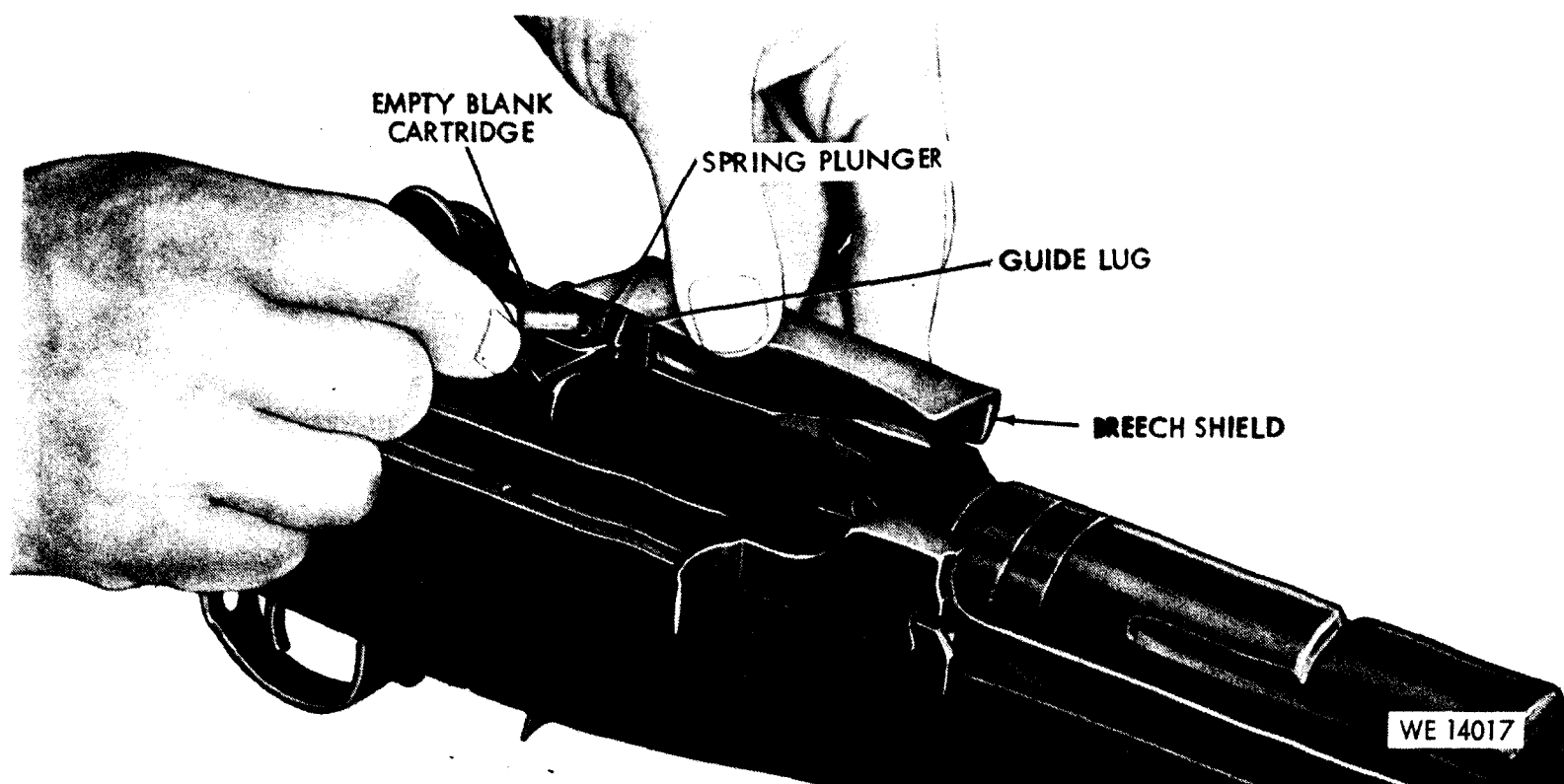


Figure 3-18. Remove/install breech shield.

Table 3-6. Guide to Maintenance of Accessories

Accessory	Removal/ installation	Cleaning and repair	Inspection
Grenade Launcher M76 (M14 Rifle only)	Fig. 1-5	Par. 3-23	Inspect clip latch for cracks or distortion. To insure retention of plunger retaining pin, an area around the pin hole should be lightly staked with a center punch, moving metal inward and thus preventing loss of pin. Inspect for cracked or missing retainer spring.
Grenade Launcher Sight M15 (M14 Rifle only)	Fig. 3-16	Par. 3-23 <i>Note.</i> Care must be exercised to clean sight and glass of leveling bubble.	Inspect mounting plate, notches, and clip spring tips for burs.
Bayonet Knife M6 (M14 Rifle only)	Figs. 1-3 and 1-11 To remove, depress latching lever, releasing bayonet lug from groove in handle - slide off rifle. To install, engage groove to bayonet lug on front sight and loop top portion of handle over flash suppressor. Slide rearward until engaged on bayonet lug of front sight.	Par. 3-23 <i>Note.</i> For cleaning instructions for Scabbard M8A1 refer to par. 3-4.	Inspect latching lever lugs in bayonet handle for burs.
Blank Ammunition Firing Attachment M12 w/Breech Shield M3 (M14 Rifle only)	Figs. 3-17 and 3-18	Par. 3-23 <i>Note.</i> Clean carbon from orifice tube.	Inspect for cracks in weld area. Check spring action of spring clip latch. Check spring action of plunger in breech shield. Check cartridge guide lug of breech shield for burs.
Winter Trigger (Arctic use only)	Fig. C-10 <i>Note.</i> Initial installation will be accomplished by Direct Support Maintenance Personnel.	Par. 3-23	Inspect for cracks and wear on winter trigger. Make certain lever does not bind at hinge and cam does not bind on lever. Inspect winter safety for cracks or distortion. Make certain safety will function properly within firing mechanism.

CHAPTER 4

AMMUNITION

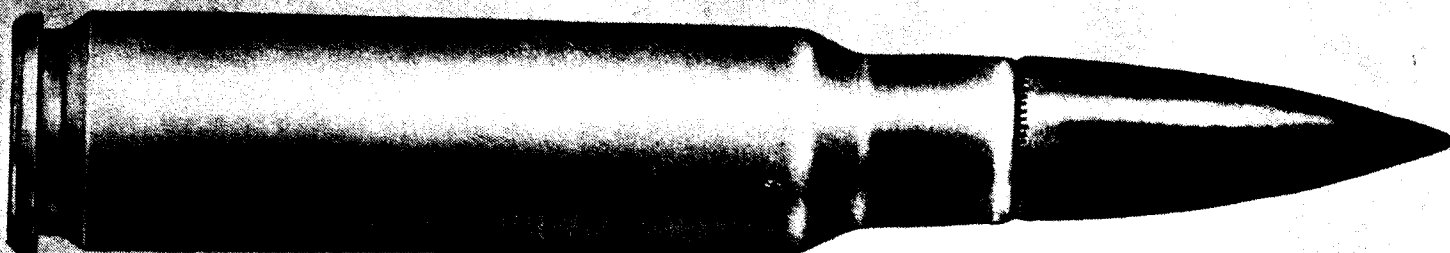
4-1. General.

The ammunition (figs. 4-1 and 4-2) for the 7.62-MM Rifle, M14 Series, is classified as small arms ammunition and is issued in the form of a complete round. A complete round

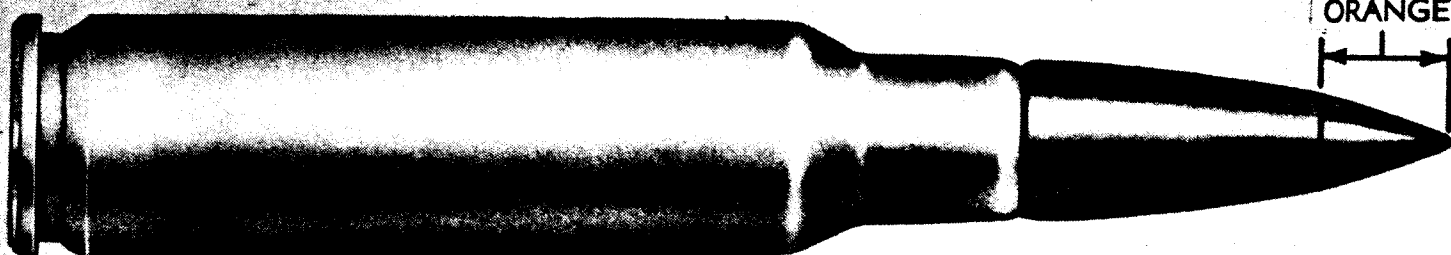
(cartridge) consists of all the components (projectile (bullet), cartridge case, propellant powder, and primer) necessary to fire the weapon once.



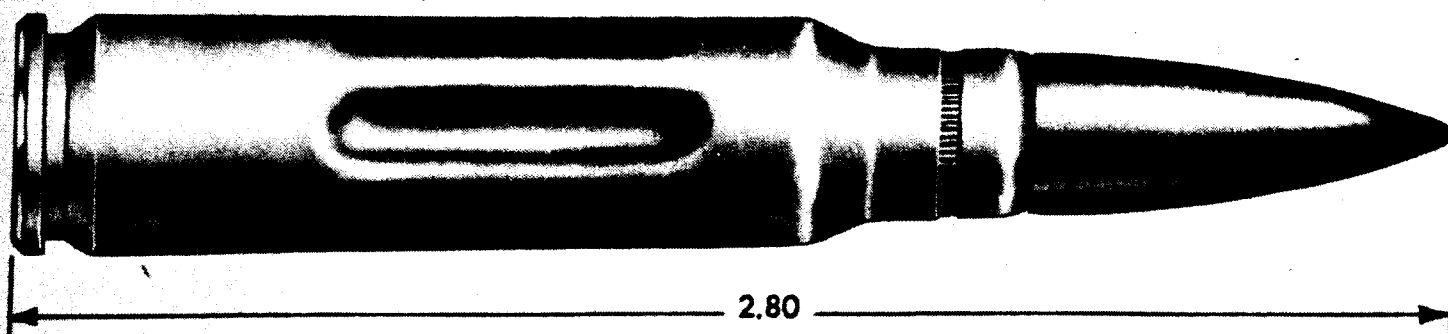
CARTRIDGE, 7.62 MILLIMETER: NATO, AP, M61



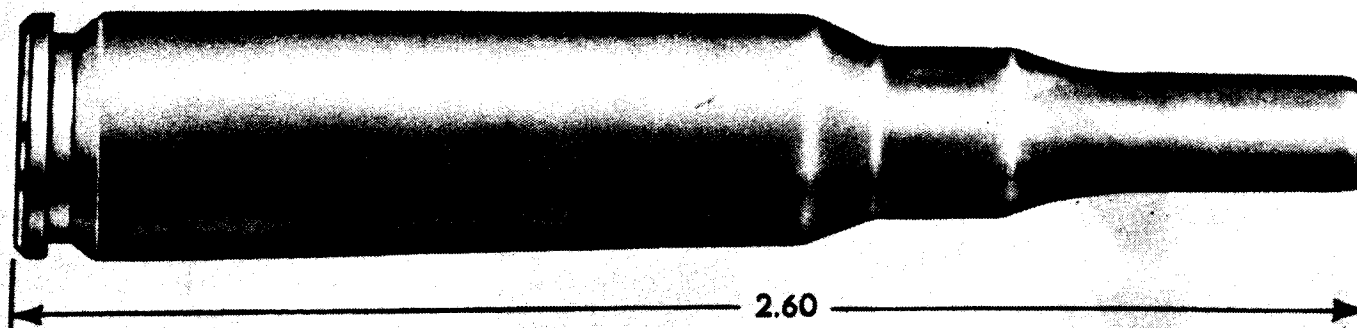
CARTRIDGE, 7.62 MILLIMETER: NATO, BALL, M59 AND M80



CARTRIDGE, 7.62 MILLIMETER: NATO, TRACER, M62



CARTRIDGE, 7.62 MILLIMETER: NATO, DUMMY, M63



CARTRIDGE, 7.62 MILLIMETER BLANK: NATO, XM82

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Figure 4-1. Cartridges for 7.62-MM Rifle M14 and M14A1.

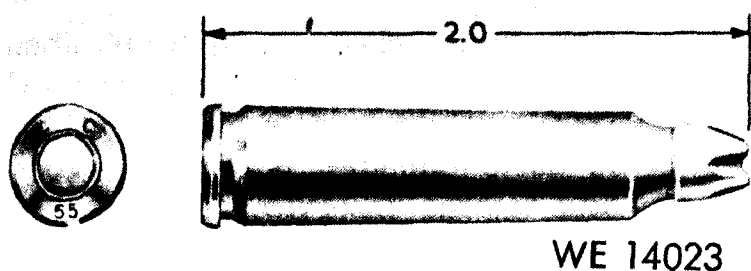


Figure 4-2. 7.62-MM Grenade Cartridge M64.

4.2. Classification.

Ammunition authorized for use in the rifle is classified by type of projectile, as follows:

a. Armor-piercing cartridge, for use against light-armored or other bullet-resisting targets where armor-piercing effects are desired.

b. Ball cartridge, for use against light-materiel targets and personnel.

c. Blank cartridge, for simulated fire, in maneuvers and in firing salutes.

d. Dummy cartridge (completely inert) simulates service ammunition for practice in loading the weapon.

e. Tracer cartridge, for observation of fire, and for incendiary effect and signaling.

f. Grenade cartridge, for use with Grenade Launcher M76 for projecting grenades.

4.3. Identification.

a. *General.* Type, caliber, model, and ammunition lot number, including the symbol of the manufacturer, are necessary for complete identification of small arms ammunition. Ammunition for the 7.62-mm weapon is completely identified by its appearance, painting of the bullet tip, and markings on packing containers.

b. *Stamping.* Because of the small size of small arms ammunition, marking consists of stamping the manufacturer's initials, year of manufacture and NATO design mark on the base of the cartridge case.

c. *Types.* Cartridges removed from their original packing containers may be identified by physical characteristics, as follows:

Type	Distinguishing Characteristics
Armor-piercing	Tip of bullet painted black for a distance of approximately 5/16 inch. Knurled cannelure.

Type	Distinguishing Characteristics
Ball	Gilding-metal or gilding-metal-clad steel jacket on bullet (no markings).
Blank	One-piece cartridge case with hollow bullet-like nose closed by a disk sealed in the mouth (no bullet).
Dummy	Six longitudinal corrugations in body of cartridge case (no markings on bullet).
Grenade	Five petal rose crimp of the mouth of the cartridge case and the absence of a bullet.
Tracer	Tip of bullet painted orange for a distance of approximately 5/16 inch.

d. *Grades.* Small Arms ammunition is graded primarily on qualities which make the lot especially suited for use in a particular class of weapons (for example, grade R ammunition is especially suited for use in rifles). Current grades of all existing lots of small arms ammunition are published in TB 9-AMM 4. Only those lots of appropriate grade will be fired. Grade 3 indicates unserviceable ammunition that will not be issued or fired, or cartridges for which the ammunition lot number has been lost. However, ammunition placed in grade 3, because of loss of ammunition lot number, but which can be identified as having been in serviceable lots issued to a specific organization may be reissued after visual inspection, but only for local training purposes. Cartridges removed from original packings, but not used, should be marked or tagged so as to preserve the ammunition lot number.

e. *Model.* To identify a particular design, a model designation is assigned when the item is classified as an adopted type. This model designation becomes an integral part of the standard nomenclature and is included in the marking on the packing container. Under the present system, a model designation consists of the letter M followed by an arabic numeral: for example, M61. Modifications are indicated by adding the letter A and appropriate arabic numeral. Thus, M61A1 indicates the first mod-

ification of an item for which the original designation was M61. Similarly, a system applied to development items involves use of a "T" or "XM" designation to indicate the basic design and an "E" to indicate modifications thereof. Thus, "T102E1" indicates the first modification of a development item originally designated T102.

f. Ammunition Lot Number. At the time of manufacture, an ammunition lot number, which becomes an integral part of the marking, is assigned in accordance with pertinent specifications. This lot number is marked on all packing containers. Since it is impracticable to mark the ammunition lot number of each cartridge, every effort should be made to maintain the ammunition lot number of cartridges removed from their original packings. Cartridges for which the ammunition lot number has been lost are automatically classified grade 3.

4-4. Care, Handling, and Preservation.

a. Ammunition for the 7.62-mm rifle (small arms), as compared with other types of ammunition, is not dangerous to handle.

b. Ammunition is packed to withstand conditions ordinarily encountered in the field. Care must be exercised to keep packings from becoming broken or otherwise damaged. All broken packings must be repaired immediately; all markings must be transferred to the new parts. Ammunition may be packed in metal-lined wooden boxes or metal boxes. Damaged boxes containing metal liners should be air tested and sealed, if equipment for this work is available.

c. When necessary to leave ammunition in the open, raise it on dunnage at least six inches from the ground and cover it with paulins (tarpaulins). Whenever possible, dunnage should be used between each row to permit full air circulation. Suitable trenches should be dug to prevent water from flowing under the pile. Paulins should be arranged to permit free circulation of air through the pile and should be kept at least six inches from the pile on top, ends, and sides.

d. Since ammunition and explosives are adversely affected by moisture and high tempera-

ture, due consideration should be given to (1) and (2) below.

(1) Keep boxes closed until ammunition is to be used. Ammunition removed from airtight containers, particularly in damp climates, is apt to corrode, and become unserviceable.

(2) Protect ammunition from high temperature and direct rays of the sun. More uniform firing is obtained if rounds are at the same temperature. The combination of high temperature and humid atmosphere is particularly detrimental to stability of the propellant powder and to tracer mixtures in tracer ammunition.

e. Do not attempt to disassemble the cartridge or any of its components.

f. The use of oil or grease on cartridges is prohibited.

g. Ammunition should be protected from sand, mud, moisture, frost, snow, ice, grease, and other foreign matter. Wipe off wet or dirty ammunition at once. If verdigris or light corrosion forms on cartridges, it should be wiped off with a clean, dry cloth. However, brass components of cartridges are NOT to be polished.

h. Brass cartridge cases, which dent easily, should be protected from hard knocks or blows. Dented cartridge cases may cause incomplete obturation, jamming in the chamber, and difficulty in extraction.

i. In storing ammunition, segregate by caliber, type, and ammunition lot number. See TM 9-1300-206.

j. Ammunition remaining in a box from which part of the contents has been removed should be protected against unauthorized handling and use by firmly fastening the box cover in place.

4-5. Authorized Rounds.

Ammunition authorized for use in the 7.62-MM Rifles M14 and M14A1 is listed in table 4-1. Standard nomenclature used in the listing completely identifies each item, except for ammunition lot number. Only authorized cartridges will be used in the weapon; unauthorized assembly and use of cartridges are extremely dangerous.

Table 4-1. Authorized Rounds

Standard nomenclature	Complete round		Projectile	
	Length (in.)	Weight (grains) (approx)	Length (in.)	Weight (grains) (approx)
CARTRIDGE, 7.62-MILLIMETER: NATO, AP, M61-----	2.80	387	1.28	150
CARTRIDGE, 7.62-MILLIMETER: NATO, ball, M59-----	2.80	388	1.28	150.5
CARTRIDGE, 7.62-MILLIMETER: NATO, ball, M80-----	2.80	388	1.40 (approx)	149
CARTRIDGE, 7.62-MILLIMETER BLANK: NATO, XM82-----	2.61	225		
CARTRIDGE, 7.62-MILLIMETER DUMMY: NATO, M63-----	2.80	253	1.35	68
CARTRIDGE, 7.62-MILLIMETER: NATO, tracer, M62-----	2.80	382	1.35	141
CARTRIDGE, GRENADE: rifle, 7.62-millimeter, NATO, M64---	2.0	231		

AP.....armor-piercing
approx..... approximate

in. inch
NATO..... North Atlantic Treaty Organization

4-6. Preparation for Firing.

After removal from packing materials, cartridges for this weapon are ready for firing. Cartridges prepared for firing, but not fired, will be returned to their original packings or packed in suitable packing boxes. (Such cartridges will be used first in subsequent firings, so as to reduce stocks of opened packings.) Packing boxes should be appropriately marked with the nomenclature of the cartridges, the quality of cartridges therein, and the appropriate ammunition lot number.

4-7. Precautions in Firing.

The precautions listed below should be closely observed in order to prevent injury to personnel or damage to materiel.

a. Cartridges, especially those to be loaded into the magazine, should be free of sand, mud, moisture, frost, snow, ice, grease, or other foreign matter.

b. Corroded ammunition should not be fired.

c. Brass cartridge cases are easily dented and should be protected from hard knocks and blows. Dented cartridge cases may cause incomplete obturation, jamming in the chamber, and difficulty in extraction.

d. Cartridges having loose bullets, or otherwise damaged, should not be used.

e. Blank cartridges should be visually inspected before firing, for evidence of any foreign matter within the cartridge case mouth. Such foreign matter would be expelled as a projectile in firing. For semiautomatic or automatic firing, weapons must be equipped with firing attachments and breech shields.

Warning. Under no circumstances should the blank cartridge be altered by inclusion of

additional propellant powder in an attempt to obtain automatic action without the BFA. Additional propellant powder will not increase gas port pressure enough to operate the rifle automatically, but may increase chamber pressure enough to cause extensive rifle damage and possible injury to personnel.

f. Blank cartridges should not be fired at a representative enemy at distances less than 20 feet, as the disk may fail to break up. The intact disk and/or unburned propellant grains may cause injury within this distance.

g. Ammunition should not be fired unless it has been identified by ammunition lot number and its grade, as published in TB 9-AMM 4, is known.

h. Do not fire cartridges overheated by exposure to the direct rays of the sun or other sources of high temperature. In firing such cartridges, hazardous chamber pressures may develop.

i. A cartridge in the camber or a hot weapon, when firing is interrupted, should be removed promptly to preclude cook-off.

j. Misfires, hangfires, and cook-offs will be handled as indicated in FM 23-8 and AR 385-63.

k. Only the grenade cartridge M64 may be used to launch rifle grenades or adapted hand grenades.

Warning. Do not use a bulletted cartridge to project a grenade or ground signal from a launcher, under any circumstances. Refer to TM 3-300, FM 23-30, and AR 285-63 for more detailed information concerning safety precautions to be observed in firing grenades.

4.8. Packing and Marking.

a. Individual cartridges for this weapon are packed in cartons or clips in bandoleers, table 4-2. Cartridges are then packed into metal

boxes in wirebound boxes or into cans in wooden boxes. Complete data are published in SC 1305/30-IL.

Table 4-2. Packing Data for 7.62-mm Ammunition

Data	Cartridge	Volume (cu ft)	Weight (lb)
Packed 20/ctn, 30 ctn/can M21, 2 can (1,200 ctg) wdn bx M23: Dimensions of bx: 15-1/8 × 13-1/4 × 11-1/8	Tracer, M62	1.28	86.0
Packed 20/ctn, 20 ctn (400 ctg) wdn bx: Dimensions of bx: 10-3/4 × 10-1/4 × 8-1/2	Dummy, M63	0.54	28.0
Packed 20/ctn, 12 ctn/mtl bx M19 or M19A1, 4 bx (960 ctg) wrbnd bx: Dimensions of bx: 17-1/2 × 11-1/2 × 7-7/8	AP, M61 and ball, M80	0.91	72.0
Packed 20/ctn, 26 ctn/can M21, 2 can (1,040 ctg) wdn bx M23: Dimensions of bx: 15-1/8 × 13-1/4 × 11-1/8	AP, M61	1.28	78.0
Packed 5/clip, 12 clip/bandoleer M1, 7 band/mtl bx M2A1, 2 bx (840 ctg)/wrbnd bx: Dimensions of bx: 14-1/2 × 12-3/4 × 8-3/8	ball, M59	0.90	68.2
Packed 5/clip, 12 clip/bandoleer M1, 7 band and 1 magazine filler/mtl bx M2A1, 2 bx (840 ctg and 2 magazine filler)/wrbnd bx: Dimensions of bx: 14-1/2 × 12-3/4 × 8-3/8	ball, M80	0.90	68.5
Packed 20/ctn, 23 ctn/mtl bx M2A1, 2 bx (920 ctg)/ wrbnd bx: Dimensions of bx: 14-1/4 × 12-3/4 × 8-3/8	Blank, XM82	0.90	51.0
Packed 5/clip, 12 clip/bandoleer, 4 band/mtl bx M1 or M19 series, 4 bx (960 ctg)/wrbnd box: Dimensions of bx: 17-3/8 × 11-1/2 × 8-1/8	ball, M59	0.93	80.0
bx box ctg cartridge ctn carton	cu ft cubic foot lb pound	wdn wooden wrbnd wirebound	

b. The following information is marked in black on unpainted wooden packing boxes of 7.62-mm ammunition:

- (1) Interstate Commerce Commission (ICC) shipping designation.
- (2) Federal Stock Number (FSN) and Department of Defense (DOD) Ammunition Code or Ammunition Identification Code (AIC) symbol.
- (3) Ammunition lot number.

- (4) Gross weight of packing and contents.
- (5) Cubical displacement of packing box.
- (6) Description nomenclature of packed item.
- (7) Caliber and weapon designation.
- (8) Ordnance insignia (only on older packings).
- (9) Name and address of box manufacturer and data "packed".
- (10) NATO—design mark.

CHAPTER 5

DEMOLITION OF MATERIEL TO PREVENT ENEMY USE

5-1. General.

a. Rifle M14 series and Bipod M2, subject to capture or abandonment in the combat zone, will be destroyed only by the authority of the unit commander, in accordance with orders of, or policy established by the Army Commander. The reporting of the destruction of equipment is to be reported through regular command channels.

b. The information which follows is for guidance only. Certain of the procedures outlined require use of explosives and incendiary grenades, normally not authorized items of issue to the using organization. Issue of these and related items, and conditions under which destruction will be effected are command decisions based on the tactical situation. Of the several means of destruction, the following generally apply:

Mechanical	Requires axe, pick mattock, sledge, crowbar, or similar implement.
Burning	Requires gasoline, oil, incendiary grenades, or other flammables or welding or cutting torch.
Demolition*	Requires suitable explosives or ammunition.
Gunfire*	Includes artillery, machine gun, rifles using rifle grenades, and launchers using antitank rockets. Under some circumstances, hand grenades may be used.
Disposal	Requires burying in the ground, dumping in streams or marshes, or scattering so widely as to preclude recovery of essential parts.

Destruction of essential parts by mechanical means will render the rifle and bipod useless, however, selection depends upon utilizing facilities at hand under existing conditions. Time is usually critical.

* Generally applicable only when the rifle and bipod are to be destroyed in conjunction with other equipment.

c. If destruction to prevent enemy use is resorted to, the rifle and bipod must be so badly damaged that it cannot be restored to a usable condition in the combat zone either by repair or cannibalization. Adequate destruction requires that all parts essential to the operation of the rifle and bipod, be destroyed or damaged beyond repair. However, when lack of time and personnel prevent destruction of all parts, priority is given to destruction of parts in the following order:

1. Firing mechanism and bolt
2. Barrel
3. Sighting equipment
4. Bipod

It is equally important that the same essential parts be destroyed on all like materiel, including spare parts, so that the enemy cannot construct one complete unit from several damaged units.

d. If destruction is directed, due consideration should be given to observance of appropriate safety precautions.

5-2. Destruction of the 7.62-MM Rifle M14 Series and Bipod M2.

a. *Method No. 1—By Mechanical Means.* Using an axe, pick mattock, sledge, or other heavy implement, destroy the rifle by smashing the receiver assembly, front and rear sights, trigger and trigger guard, magazine, stock, controls, yoke assembly, and left and right-leg assemblies of the bipod. Also, bend the barrel of the rifle and cut the sling into several pieces. Elapsed time: about 3 minutes.

b. *Method No. 2—By Burning.*

(1) Place the rifle and bipod on a suitable pile of combustible. Pour gasoline or oil over the rifle, bipod and combustible. Ignite and take cover. A hot fire is required to render the rifle useless.

Warning. When igniting gasoline, due consideration should be given to

its vapor and highly flammable nature. Carelessness may result in painful burns. Elapsed time: about 3 minutes.

- (2) If a welding or cutting torch is available, burn through the barrel and receiver assembly of the rifle. Also, burn through the yoke assembly and

leg assemblies of the bipod. Destroy the stock and sling as described in *a* above. Elapsed time: about 3 minutes.

c. Method No. 3—By Disposal. Disassemble, scatter, and bury the rifle, bipod, and component groups in a suitable hole or dump into a stream. Elapsed time: about 3 minutes.

APPENDIX A

REFERENCES

A-1. Publication Indexes.

The following publication indexes should be consulted frequently for the latest changes or revisions of references given in the appendix and for new publications relating to material covered in this manual.

Index of Army Motion Pictures, Film Strips, Slides and Phono-Recordings. DA Pam 108-1

Military Publications:

Index of Administrative PublicationsDA Pam 310-1

Index of Blank FormsDA Pam 310-2

Index of Graphic Training Aids and DevicesDA Pam 310-5

Index of Supply Catalogs and Supply Manuals (excluding Types 7, 8, and 9)DA Pam 310-6

Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bulletins, Lubrication Orders, and Modification Work OrdersDA Pam 310-4

Index of Doctrinal, Training, and Organizational PublicationsDA Pam 310-3

A-2. Identification List.

The following identification listings pertain to this materiel:

Ammunition and ExplosivesSC 1340/98-IL

Ammunition and Explosives (Class 1305 ammunition through 30-mm)SC 1305/30-IL

A-3. Forms.

The following forms pertain to this materiel:

DA Form 9-79, Parts Requisition

DA Form 1296, Stock Accounting Record

DA Form 2028, Recommended Changes to DA Publications

DA Form 2407, Maintenance Request

DD Form 6, Report of Damaged or Improper Shipment

A-4. Other Publications.

a. Ammunition.

Ammunition, GeneralTM 9-1900

Ballistic Data, Performance of AmmunitionTM 9-1907

Care, Handling, Preservation and Destruction of Ammunition.....TM 9-1300-206

Identification of Inert Ammunition and Ammunition Components.....AR 385-65

Small Arms AmmunitionTM 9-1305-200

Small Arms Ammunition Lots and GradesTB 9-AMM 4

b. General.

Logistics (General):

Malfunctions Involving Ammunition and Explosive (Reports Control

Symbol AMC 132)AR 700-1300-8

Logistics Management:	
Army Equipment Records Procedure	TM 38-750
Maintenance of Supplies and Equipment:	
Maintenance Support Planning	AR 750-6
Organization, Policies, and Responsibilities for Maintenance	
Operations	AR 750-5
Military Symbols	FM 21-30
Military Terms, Abbreviations, and Symbols:	
Authorized Abbreviations and Brevity Codes	AR 320-50
Dictionary of United States Army Terms	AR 320-5
Military Training Management	FM 21-5
Safety:	
Accident Reporting and Records	AR 385-40
Regulation for Firing Ammunition for Training, Target Practice,	
and Combat	AR 385-63
Special Operations:	
Basic Cold Weather Manual	FM 31-70
Techniques of Military Instructions	FM 21-6
<i>c. Packaging and Shipping of Materiel.</i>	
Issue of Supplies and Equipment:	
Requisitioning, Receipt, and Issue System	AR 725-50
<i>d. Property Accountability.</i>	
Supply Procedures for TOE and TDA units or activities	AR 735-35
<i>e. Shipment and Limited Storage.</i>	
Protection of Ordnance General Supplies in Open Storage	TB ORD 379

APPENDIX B

MAINTENANCE ALLOCATION CHART

B-1. General

Indicates specific maintenance operations performed at the proper maintenance levels. Deviation from maintenance operations allocated in the chart is authorized only upon approval of the Commanding Officer.

B-2. Maintenance Functions.

These functions are limited to and defined as follows:

INSPECT	To determine serviceability of an item by comparing its physical and mechanical characteristics with established standards.
SERVICE	To clean, preserve, and lubricate.
INSTALL	To set up for use in an operational environment such as an emplacement, site, or vehicle.
REPLACE	To replace unserviceable items with serviceable assemblies, subassemblies, or parts.
REPAIR	To restore an item to serviceable condition. This includes, but is not limited to inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.
OVERHAUL	To restore an item to a completely serviceable condition by disassembling the item to determine the condition of each of its component parts and reassembling it using serviceable or new assemblies, subassemblies, or parts.

B-3. Explanation of Format.

Purpose and use of format are as follows:

a. *Column a, Group Number.* Lists group numbers, the purpose of which is to identify components and assemblies, subassemblies, and modules with the next higher assembly.

b. *Column b, Component Assembly Nomenclature.* Lists the noun names of components, assemblies, subassemblies, groups, and modules on which maintenance is authorized.

c. *Column c, Maintenance Functions.* Lists the various categories of maintenance to be performed on the rifles and bipod.

d. *Use of Codes.* Explanation of the use of codes in maintenance column (c) is as follows:

Code	Explanation
C	Operator/Crew
O	Organizational Maintenance
F	Direct Support Maintenance
H	General Support Maintenance
D	Depot Maintenance

e. *Column d, Tools and Equipment.* This column will be used to specify those tools required to perform the designated function.

f. *Column e, Remarks.* Self-explanatory.

Note. Columns not utilized in this chart are considered not applicable to the rifles and bipod.

Nomenclature of End Item or Component

RIFLE, 7.62-MM, M14, M14A1 AND RIFLE, BIPOD M2

Section II. MAINTENANCE ASSIGNMENT

Group number a	Component assembly nomenclature b	Maintenance function c											Tools and equipment d	Remarks e
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
1	Magazine -----	C	-	C	-	-	-	C	C	-	D	-	Combination tool (7790679)	
2	Firing mechanism -----	C	-	C	-	-	-	C	-	O	D	-		
3	Stock assembly -----	C	-	C	-	-	-	C	F	F	D	-		
4	Hand guard assembly -----	C	-	C	-	-	-	C	O	-	-	-		
5	Operating rod and connector group -----	C	-	C	-	-	-	C	-	O	D	-		
6	Bolt assembly -----	C	-	C	-	-	-	C	-	O	D	-		
7	Bolt, breech -----	C	-	C	-	-	-	C	F	F	D	-	Combination tool (7790679) Combination tool (7790679) Combination tool (7790679)	
8	Barrel and receiver group -----	C	-	C	-	-	-	-	-	O	D	-		
9	Stabilizer assembly (M14A1) -----	C	-	C	-	-	-	C	F	-	D	-		
10	Bipod, rifle M2 -----	C	-	C	-	-	-	C	C	F	D	-		

APPENDIX C

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-1. Scope.

This appendix contains a list of basic issue items, repair parts, special tools, and equipment required for the performance of organizational maintenance of the M14 and M14A1 Rifles.

C-2. General.

This basic issue items, repair parts, and special tools list is divided into the following sections:

a. Basic Issue Items List (BIIL)—Section II. A list of items which accompany the 7.62-MM Rifles M14 and M14A1 or are required for installation, operation, or operator's maintenance.

b. Maintenance and Operating Supplies—Section III. A list of operating and maintenance supplies required for initial operation.

c. Prescribed Load Allowance List (PLL)—Section IV. A consolidated listing of repair parts quantitatively allocated for initial stockage at the organizational level. *This is a mandatory minimum stockage allowance.*

d. Special Tools List—Section V. A list of special tools authorized for the performance of maintenance at the organizational level.

e. Repair Parts List—Section VI. A list of repair parts and cleaning and preserving material authorized for the performance of maintenance at the organizational level.

f. Federal Stock Number Index—Section VII. An index referencing the applicable illustration figure and item numbers.

C-3. Explanation of Columns.

The following provides an explanation of columns in the tabular lists in sections II, V and VI.

a. Source, Maintenance, and Recoverability Codes.

(1) *Source Code.* Indicates the selection

status and source for the listed item. Source codes used are:

Code	Explanation
C	Applied to repair parts authorized for local procurement. If not obtainable from local procurement such repair part will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
P	Applied to repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.

(2) *Maintenance Code.* Indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:

Code	Explanation
C	Operator/crew
O	Organizational maintenance

(3) *Recoverability Code.* Indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. The recoverability code is:

Code	Explanation
R	Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.

b. Federal Stock Number. Indicates the Federal stock number for the item.

c. Description. Indicates the Federal item name and a brief description of the item. The abbreviation "w/e" when used as a part of the nomenclature, indicates the Federal stock number includes all armament, equipment, accessories, and repair parts issued with the item. A part number is included in parenthesis for reference.

d. Unit of Issue. Indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.

e. *Quantity Incorporated in Unit Pack.* Indicates the actual quantity contained in the unit pack.

f. *Quantity Incorporated in Unit.* Indicates the quantity of repair parts in an assembly.

g. *Quantity Authorized.* Indicates the total quantity of an item required to be on hand and necessary for operation and maintenance of the equipment (BIIL).

h. *15-Day Organizational Maintenance Allowances.*

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have no entry in the allowance columns but have a reference in the description column to the first appearance of the item. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

(3) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary recommendations should be forwarded to Commanding General, Headquarters, U.S. Army Weapons Command, ATTN: AMSWE-SMM-SA, Rock Island Arsenal, Rock Island, Illinois 61201 for exception or revision to the allowance list.

i. *Illustration.*

(1) *Figure Number.* Indicates the figure

number of the illustration in which the item is shown.

(2) *Item Number.* Indicates the callout number used to reference the item in the illustration.

C-4. How to Locate Repair Parts.

a. When Federal stock number is unknown:

(1) *First.* Using the table of contents determine the functional group or assembly, within which the repair part belongs. This is necessary because separate illustrations are prepared for functional groups and assemblies, and listings are divided into function groups.

(2) *Second.* Find the repair part illustration in the back of the publication covering the functional group or assembly to which the repair part belongs.

Note. Do not bypass this part of the procedure. Positive identification of the repair part is required.

(3) *Third.* Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth.* Using the repair parts listing, find the functional group or assembly of the repair part and the illustration figure and item number as noted on the illustration.

b. When Federal stock number is known:

(1) *First.* Using the index of Federal stock numbers to illustration figure and item number, find the FSN. This index is in numerical sequence cross-referenced to illustration figure and item number.

(2) *Second.* Using the repair part listing, find the functional group or assembly of the repair part and the illustration figure and item number as noted in the index of Federal stock numbers.

C-5. Abbreviations.

Abbreviations	Explanations
assy	assembly(ies)
bx	box(es)

<i>Abbreviations</i>	<i>Explanations</i>
ctg	cartridge(s)
ctn	carton
deg	degrees
dia	diameter
fl-fil-hd	flat fillister head
gal	gallon(s)
gr	grade
hd	head
hex-socket	hexagon socket
id	inside diameter
lb	pound(s)
lg	length(long)
max	maximum
mm	millimeter(s)
NATO	North Atlantic Treaty Organization
NC	National course (thread)
no.	number
nom	nominal
non-std pt	non standard point
o/a	over-all
od	outside diameter
oz	ounce(s)
phos-ctd	phosphate coated
qt	quart(s)
rd	round
sh	sheet(s)
sp	special
sq	square
stk	stock
S	steel
thk	thick(ness)
UNF	Unified fine thread
w	wide(width)
w/	with
wdn	wooden
w/e	with equipment
x	by (used between dimensions)

Section II. BASIC ISSUE ITEMS LIST

(1) Source Maint. and Recov. Code			(2) Federal Stock No.	(3) Description	(4) Unit of Issue	(5) Qty. Inc In Unit Pack	(6) Qty. Inc. In Unit	(7) Qty. Auth	(8) Illustration	
(a) Source	(b) Maint.	(c) Recov.							(a) Fig. No.	(b) Item No.
P	C	R	1005-589-1271	MAJOR ITEMS RIFLE, 7.62-MM: M14 w/e (8413866) -----	ea					
		R	1005-072-5011	RIFLE, 7.62-MM: M14A1, w/e (8427044) -----	ea					
		R	1005-711-6202	BIPOD, RIFLE: M2 (7790688) -----	ea				1-10	-
				REPAIR PARTS FOR: RIFLES, 7.62-MM, M14 AND M14A1						
		-	1005-628-9048	MAGAZINE, CARTRIDGE: 20 cartridge capacity (7790183)	ea	2	1	4	3-1 3-2	1 3
			1005-556-4174	TOOLS AND EQUIPMENT BRUSH, CLEANING, SMALL ARMS: bore (5564174) -----	ea			1	C-1	7
			1005-690-8441	BRUSH, CLEANING, SMALL ARMS: chamber (7790463) -----	ea			1	C-1	9
			1005-791-3377	CASE, LUBRICANT: (7790995) -----	ea			1	C-1	10
			1005-650-4510	CASE, SMALL ARMS CLEANING ROD: (7267754) -----	ea			1	C-1	2
			4933-768-0211	COMBINATION TOOL: (7790769) -----	ea			1	C-1	3
			1005-726-6109	ROD SECTION, CLEANING, SMALL ARMS: S, 0.164-32NC 2A one end, 0.164-32NC-2B other end, 6.305 o/a lg (7266109)	ea			4	C-1	6
			1005-654-4058	SLING, SMALL ARMS: M1, webbing (6544058) (M14 only)	ea			1	C-1	1
			1005-726-6110	SWAB HOLDER SEC- TION, SMALL ARMS CLEANING ROD: (7266110)	ea			1	C-1	8
				AMMUNITION Ammunition, for use with these rifles, is listed in SC 1305/30-IL.						
				ARTICLES FOR IN- STRUCTIONAL PURPOSES The following items WILL BE TAKEN into the field upon permanent change of station and into the theater of operation.						

(1) Source Maint. and Recov. Code			(2) Federal Stock No.	(3) Description	(4) Unit of Issue	(5) Qty. Inc. In Unit Pack	(6) Qty. Inc. In Unit	(7) Qty. Auth	(8) Illustration	
(a) Source	(b) Maint.	(c) Recov.							(a) Fig. No.	(b) Item No.
			1305-540-5627	CARTRIDGE, 7.62-MM, DUMMY: NATO, M63, packed 20/ctn, 20 ctn (400 ctg) wdn bx (7553706)	ctn					
			1005-617-4998	DEVICE, AIMING: M2 (6174998)-----	ea	-----	-----	-----	C-2	
			6910-716-0903	TRAINER, RIFLE SIGHT- ING: M15, cardboard, hard fin., 3-1/2 w, 0.016 thk, 7 o/a lg (7160903) The following item WILL NOT BE TAKEN into the field upon permanent change of stations or into the theater of operations. Units will turn in all equipment to the Com- manding Officer of the station from which it departs.	ea	-----	-----	-----	C-3	
			1005-893-0902	FIRING ATTACHMENT, BLANK AMMUNITION: M12 w/breech shield M3 (5910570) (M14 rifle only)	ea	-----	-----	-----	C-4	

Section III. MAINTENANCE AND OPERATING SUPPLIES

Component Application	Federal Stock Number	Description	Qty Required For Initial Operation	Qty Required For 8 Hours Operation	Notes
	1005-288-3565	SWAB, SMALL ARMS CLEANING: cotton, 2-1/2 sq (5019316)	*		

Section IV. PRESCRIBED LOAD ALLOWANCE

(1) Federal Stock No.	(2) Description	(3) 15-Day Organizational Maint. Allowance			
		(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
	GROUPS AND ASSEMBLIES				
1005-072-5876	SLING, SMALL ARMS: (11010038) (M14A1 only)-----	-----	-----	-----	2
1005-628-9048	MAGAZINE, CARTRIDGE: (7790183)-----	-----	2	2	3
1005-856-2108	GUARD ASSEMBLY, HAND, FIBER GLASS: (7791286)-----	-----	-----	-----	2
	FIRING MECHANISM				
1005-587-8414	SPRING, SAFETY: (7267080)-----	-----	-----	-----	2
1005-587-8419	TRIGGER AND SEAR ASSEMBLY: (7267090)-----	-----	-----	-----	2
1005-600-8887	SPRING, HELICAL, COMPRESSION: (6008887)-----	-----	-----	-----	2
1005-819-4501	PIN, TRIGGER: (7791367)-----	-----	-----	-----	2
5315-501-3668	PIN, STRAIGHT, HEADED: (5013668)-----	-----	-----	-----	2
	OPERATING ROD AND CONNECTOR GROUP				
1005-587-8413	SPRING, OPERATING ROD: (7267079)-----	-----	-----	2	2
	BOLT ASSEMBLY				
1005-587-8381	EJECTOR, CARTRIDGE WITH SPRING: (7267015)-----	-----	-----	-----	2
1005-600-8618	PLUNGER, EXTRACTOR SPRING: (6008618)-----	-----	-----	-----	2
1005-921-5248	PIN, FIRING: (11686413)-----	-----	2	2	3
1005-953-9504	EXTRACTOR, SMALL ARMS, CARTRIDGE: (7791578)-----	-----	-----	-----	2
	BARREL AND RECEIVER GROUP				
1005-587-8400	PLUG, GAS CYLINDER: (7267053)-----	-----	-----	2	2
1005-587-8420	LOCK, SELECTOR, SHAFT: (7267172) (M14 only)-----	-----	-----	-----	2
1005-600-8868	APERTURE SIGHT: (6008868)-----	-----	-----	-----	2
1005-731-2737	KNOB: (7312737)-----	-----	-----	-----	2
1005-999-3399	PINION ASSEMBLY, REAR SIGHT ELEVATING: (11010363)---	-----	-----	-----	2
5305-042-6426	SETSCREW: (7790300)-----	-----	-----	-----	2
5315-051-6891	PIN, SPRING: (96906-16562-107)-----	-----	-----	2	2
	COMBINATION TOOL				
4933-780-1982	BLADE, SCREWDRIVER: (7790786)-----	-----	-----	-----	2
5315-597-5086	PIN, SPRING: (96906-16562-98)-----	-----	-----	-----	2

Section V. SPECIAL TOOLS LIST FOR ORGANIZATIONAL MAINTENANCE

(1) Source Maint. And Recov. Code			(2) Federal Stock No.	(3) Description	(4) Unit Of Issue	(5) Qty. Inc. In Unit Pack	(6) Qty. Inc. In Unit			(7) 15 Day Organizational Maint. Allowance				(8) Illustration	
(A)	(B)	(C)					(A)	(B)	(C)	(A)	(B)	(C)	(D)	(A) Figure No.	(B) Item No.
				TOOLS AND EQUIPMENT AUTHORIZED FOR UNIT REPLACEMENT											
			1005-288-3565	SWAB, SMALL ARMS CLEANING: cotton, 2-1/2 sq (5019316)	PKG 1000										
			1005-556-4174	BRUSH, CLEANING, SMALL ARMS: bore (5564174)	EA 10			*	*				2	C-1	7
			1005-650-4510	CASE, SMALL ARMS CLEANING ROD: (7267754)	EA 10			*	*				2	C-1	2
			1005-654-4058	SLING, SMALL ARMS: M1 cot. webbing, olive drab, clamp keeper type adjustment (6544058) (M14 only)	EA 10			*	*				2	C-1	1
			1005-690-8441	BRUSH, CLEANING, SMALL ARMS: chamber (7790463)	EA 10			*	*				2	C-1	9
			1005-726-6109	ROD SECTION, CLEANING, SMALL ARMS: S, 0.164-32NC- 2A one end, 0.164-32NC-2B other end, 6.305 o/a lg (7266109)	EA 10			*	*				2	C-1	6
			1005-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD: (7266110)	EA 10			*	*				2	C-1	8
			1005-791-3377	CASE, LUBRICANT: (7790995)	EA 72			*	*				2	C-1	10
			4933-768-0211	COMBINATION TOOL: (7790769)	EA 1			*	*				2	C-1	3
				ORGANIZATIONAL MAINTENANCE TOOLS AND EQUIPMENT (FOR ARMORERS USE)											
				The 15-day level is not applicable											
			1005-722-8907	ENVELOPE: fabric, 2 button, 4-7/8 x 3 (7228907)	EA 10			*	*				*	C-5	1
			4933-628-9700	REFLECTOR, GUN BARREL: (7790138)	EA 20			*	*				*	C-5	4
			4933-652-9950	EXTRACTOR, RUPTURED CARTRIDGE CASE: (7790352)	EA 10			*	*				*	C-5	3
			4933-690-3497	PLIERS, LOCK NUT, FLASH SUPPRESSOR: (7790493)	EA 1			*	*				*	C-5	2

Section VI. REPAIR PARTS FOR ORGANIATIONAL MAINTENANCE

(1) Source M. nt. And Recov. Code			(2) Federal Stock No.	(3) Description	(4) Unit Of Issue	(5) Qty. Inc. In Unit Pack	(6) Qty. In Unit	(7) 15 Day Organizational Maint. Allowance				(8) Illustration
(A) Source	(B) Maint.	(C) Recov.						(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	
REPAIR PARTS FOR:												
RIFLE, 7.62-MM, M14												
GROUP AND ASSEMBLIES												
P	C	-----	1005-628-9048	MAGAZINE, CARTRIDGE: 20 cartridge capacity (7790183)---	EA	2	1	*	2	2	3	3-1 1
P	O	-----	1005-856-2108	GUARD ASSEMBLY, HAND, FIBER GLASS: (7791286)---	EA	20	1	*	*	*	2	3-1 4
RIFLE, 7.62-MM, M14A1												
GROUP AND ASSEMBLIES												
P	O	-----	1005-072-5376	SLING, SMALL ARMS: (11010038)---	EA	10	1	*	*	*	2	3-2 1
P	C	-----	1005-628-9048	MAGAZINE, CARTRIDGE: 20 cartridge capacity (7790183)---	EA	2	1	*	2	2	3	3-2 3
P	O	-----	1005-856-2108	GUARD ASSEMBLY, HAND, FIBER GLASS: (7791286)---	EA	20	1	*	*	*	2	3-2 6
RIFLES, 7.62-MM, M14 AND M14A1												
FIRING MECHANISM												
P	O	-----	1005-819-4501	PIN, TRIGGER: (7791367)---	EA	20	1	*	*	*	2	C-6 1
P	O	-----	1005-587-8419	TRIGGER AND SEAR ASSEMBLY: (7267090)---	EA	2	1	*	*	*	2	C-6 2
X1	O	-----	-----	HOUSING, HAMMER SPRING: (6008883)---	---	---	1	---	---	---	---	C-6 3
P	O	-----	1005-600-8887	SPRING, HELICAL, COMPRESSION: S, 0.063 stk dia, 0.361 free od, 1.550 free o/a lg, 20 coils, hammer (6008887)---	EA	20	1	*	*	*	2	C-6 4
X1	O	-----	-----	PLUNGER, HAMMER SPRING: (6008880)---	---	---	1	---	---	---	---	C-6 5
P	O	-----	5315-501-3668	PIN, STRAIGHT, HEADED: fl-fil-hd, S, phos-ctd, 0.187 max dia, 3/4 lg under hd, hammer (5013668)---	EA	20	1	*	*	*	2	C-6 6
X1	O	-----	-----	HAMMER: firing (5546008)---	---	---	1	---	---	---	---	C-6 7
P	O	-----	1005-554-6015	SAFETY, SMALL ARMS: catch type holding device, 0.197 dia (5546015)---	EA	20	1	*	*	*	2	C-6 8
P	O	-----	1005-587-8414	SPRING, SAFETY: (7267080)---	EA	1	1	*	*	*	2	C-6 9
X1	O	-----	-----	GUARD, TRIGGER: (7790990)---	---	---	1	---	---	---	---	C-6 10
X1	O	-----	-----	HOUSING ASSEMBLY, TRIGGER: (7990196)---	---	---	1	---	---	---	---	C-6 11
OPERATING ROD AND CONNECTOR GROUP												
X1	O	-----	-----	CONNECTOR ASSEMBLY: (7790424)---	---	---	1	---	---	---	---	C-7 1
X1	O	-----	-----	GUIDE, OPERATING, ROD SPRING: (7267027)---	---	---	1	---	---	---	---	C-7 2
P	O	-----	1005-587-8413	SPRING, OPERATING ROD: (7267079)---	EA	2	1	*	*	2	2	C-7 3
X1	O	-----	-----	ROD, OPERATING: (7267064)---	---	---	1	---	---	---	---	C-7 4

Section VI. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE —Continued

(1) Source Maint. And Recov. Code			(2) Federal Stock No.	(3) Description	(4) Unit Of Issue	(5) Qty. Inc. In Unit Pack	(6) Qty. Inc. In Unit	(7) 15 Day Organizational Maint. Allowance				(8) Illustration	
(A) Source	(B) Maint.	(C) Recov.						(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100	(A) Figure No.	(B) Item No.
P	O	-----	1005-953-9504	BOLT ASSEMBLY	EA	20	1	*	*	*	2	C-8	1
P	O	-----	1005-587-8381	EXTRACTOR, SMALL ARMS CARTRIDGE: (7791578)	EA	2	1	*	*	*	2	C-8	2
P	O	-----	1005-600-8618	EJECTOR, CARTRIDGE WITH SPRING: (7267015)	EA	20	1	*	*	*	2	C-8	3
P	O	-----	1005-921-5248	PLUNGER, EXTRACTOR SPRING: (6008618)	EA	2	1	*	2	2	3	C-8	4
X1	O	-----	-----	PIN, FIRING: (11686413)	EA	2	1	*	-----	-----	-----	C-8	5
			-----	BOLT, BREECH: (7790186)	EA	2	1	*	-----	-----	-----	C-8	5
			-----	BARREL AND RECEIVER GROUP	EA	20	1	*	*	*	2	C-9	1
P	O	-----	1005-999-3399	PINION ASSEMBLY, REAR SIGHT ELEVATING: (11010363)	EA	20	1	*	*	*	2	C-9	2
P	O	-----	1005-731-2737	KNOB: windage, rear sight (7312737)	EA	20	1	*	*	*	2	C-9	3
P	O	-----	1005-600-8868	APERTURE SIGHT: (6008868)	EA	20	1	*	*	*	2	C-9	4
C	O	-----	5315-051-6891	PIN, SPRING: S, phos-ctd, 5/64 nom dia, 3/8 lg (96906-16562-107)	EA	100	3	*	*	2	2	C-9	5
P	O	-----	1005-587-8408	SELECTOR: automatic and semiautomatic firing (7267071)	EA	1	1	*	*	*	*	C-9	5
P	O	-----	1005-587-8420	LOCK, SELECTOR SHAFT: S, 0.260 id, 0.028 od, 0.056 thk (7267172) (M14 only)	EA	1	1	*	*	*	2	C-9	5
P	O	-----	1005-587-8415	SPRING, SELECTOR: S, 0.036 stk dia, 4-3/4 coils, 0.190 id, 0.500 o/a lg, selector (7267081)	EA	1	1	*	*	*	*	C-9	6
X1	O	-----	-----	RELEASE, SEAR: (7790192)	EA	1	1	*	*	*	*	C-9	7
X1	O	-----	-----	SHAFT, SELECTOR: (7267072)	EA	1	1	*	*	*	*	C-9	8
P	O	-----	1005-587-8400	PLUG, GAS CYLINDER: (7267053)	EA	5	1	*	*	2	2	C-9	9
X1	O	-----	-----	PISTON: (7267047)	EA	100	1	*	*	*	2	C-9	10
P	O	-----	5305-042-6426	SETSCREW: hex-socket, non-std pt, 0.092 max dia, 0.070 lg, S, phos-ctd, no. 6-40UNF-3A, 1/4 lg (7790300)	EA	100	1	*	*	*	2	C-9	11
X1	O	-----	-----	NUT, PLAIN, ROUND: (7267039)	EA	1	1	*	*	*	2	C-9	12
X1	O	-----	-----	SUPPRESSOR, FLASH: (7791053)	EA	1	1	*	*	*	2	C-9	13
			-----	KIT, WINTER TRIGGER	EA	1	1	*	*	*	*	C-10	1
P	O	-----	1005-775-0364	TRIGGER, ASSEMBLY, WINTER: M5 (7790808)	EA	1	1	*	*	*	*	C-10	2
P	O	-----	5305-990-6435	SCREW, TAPPING, THREAD FORMING: (7791415)	EA	2	2	*	*	*	*	C-10	3
P	O	-----	1005-010-5022	WASHER, HINGE RETAINING: trigger assembly (7791237)	EA	10	1	*	*	*	*	C-10	4
X1	O	-----	-----	LEVER: (7791211)	EA	1	1	*	*	*	*	C-10	5
P	O	-----	1005-778-0580	SAFETY, WINTER: (7790903)	EA	1	1	*	*	*	*	C-10	5
			-----	COMBINATION TOOL	EA	100	1	*	*	*	2	C-1	4
P	O	-----	5315-597-5086	PIN, SPRING: S, phos-ctd, 1-16 dia, 3/8 lg (96906-16562-98)	EA	100	1	*	*	*	2	C-1	4
P	O	-----	4933-780-1982	BLADE, SCREWDRIVER: S, phos-ctd, 0.220 w, 0.527 lg, 30 deg blade angle (7790786)	EA	10	1	*	*	*	2	C-1	5

Section VI. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE —Continued

(1) Source Maint. And Recov. Code			(2) Federal Stock No.	(3) Description	(4) Unit Of Issue	(5) Qty. Inc. Unit Pack	(6) Qty. Inc. Unit	(7) 15 Day Organizational Maint. Allowance				(8) Illustration		
(A) Source	(B) Maint.	(C) Recov.						(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100			
R					MATERIAL REQUIRED FOR COLD WEATHER CLIMATES FOR M14 ONLY The following item is issued or requisitioned only by special authorization of the area commander.									
				1005-777-1369	KIT, WINTER TRIGGER: for Arctic handwear (5910520) --- Consisting of: 1 - SAFETY, WINTER: (7790903) --- 1 - TRIGGER ASSEMBLY, WINTER: M5 (7790808) ---	EA	1							C-10
				8020-244-0153	CLEANING AND PRESERVING MATERIALS BRUSH, ARTIST: metal ferrule, flat, chisel edges, 7/16 w, 1-1/8 lg, exposed bristle	EA								
				7920-205-2401	BRUSH, CLEANING, TOOL AND PARTS: rd, 100 percent tampico fibre, 1-1/16 at ferrule brush dia, 2-7/8 clear of block brush lg	EA								C-10 5 C-10 1
				6850-620-0610	CARBON REMOVING COMPOUND: 5 gal can (P-C-111A) --- CLEANING COMPOUND SOLVENT: 2 oz can --- 6 oz can --- 1 qt can --- 1 gal can ---	EA								
				6850-224-6656	CLOTH, ABRASIVE: crocus, ferric oxide and quartz, jean-cloth-backing, closed coating, 9 w, 11 lg (50 sh sleeve) (CA)	EA								
				6850-224-6657		EA								
				6850-224-6658		EA								
				6850-224-6663		EA								
				5350-221-0872		EA								
				8010-811-1845	COATING, COMPOUND, FLUORESCENT: red orange, for direct application (1 pt can)	EA								
				6850-281-1985	DRY CLEANING SOLVENT: (SD) (1 gal can) ---	EA								
				9150-754-0063	GREASE, RIFLE: (1 lb can) ---	EA								
				8010-221-0611	LINSEED OIL, RAW: TT-L-00215, 4 max acid no. 177 min iodine no. 0.926 to 0.931 sp gr (1 gal can)	EA								
				9150-273-2389	LUBRICATING OIL, GENERAL PURPOSE: (PL special)	EA								
			9150-231-6689	4 oz can --- 1 qt can ---	EA									
			9150-292-9689	LUBRICATING OIL, WEAPONS: (LAW) for below zero operations (1 qt can)	EA									
			7920-205-1711	RAG, WIPING: cotton, for general purpose use (50 lb bale)	EA									

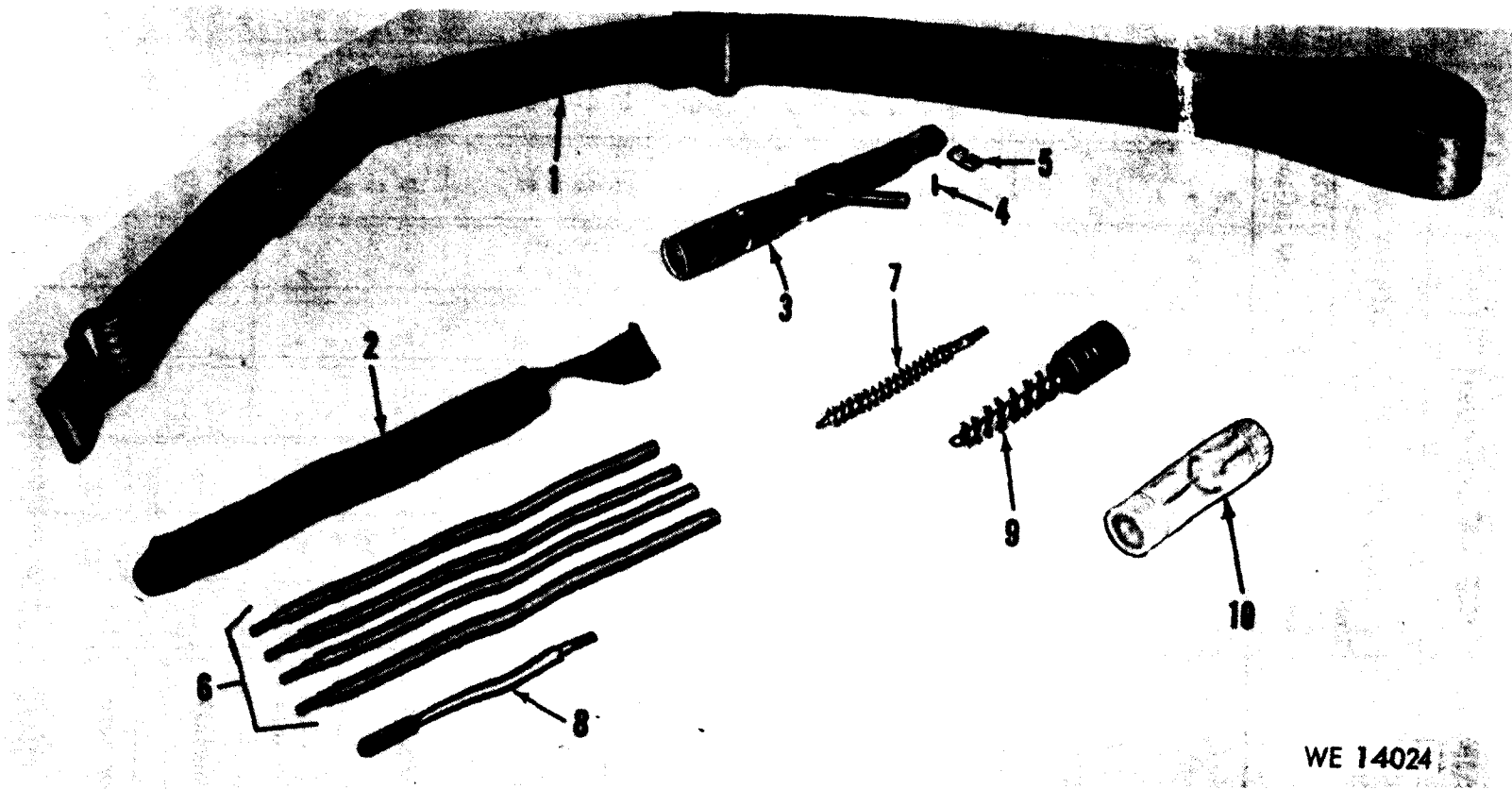


Figure C-1. Tools and equipment.

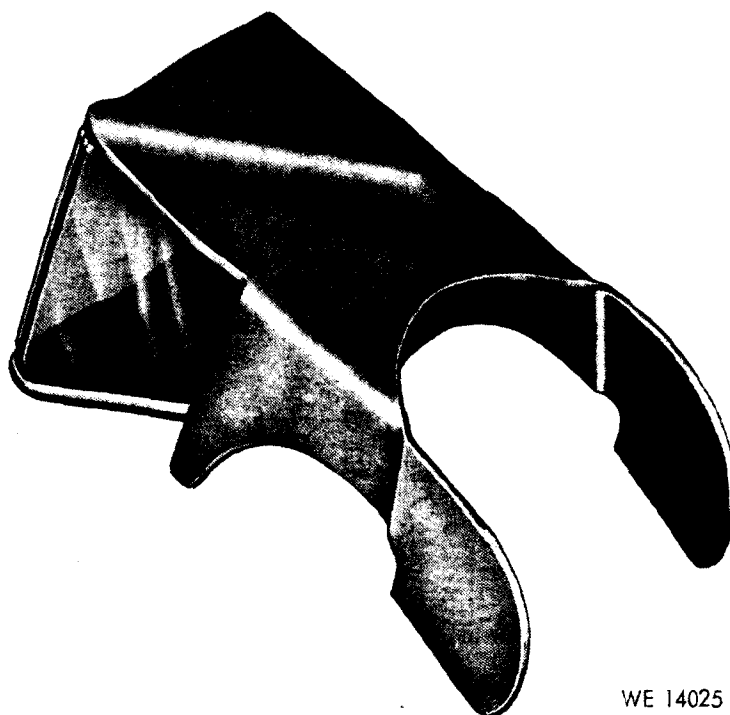
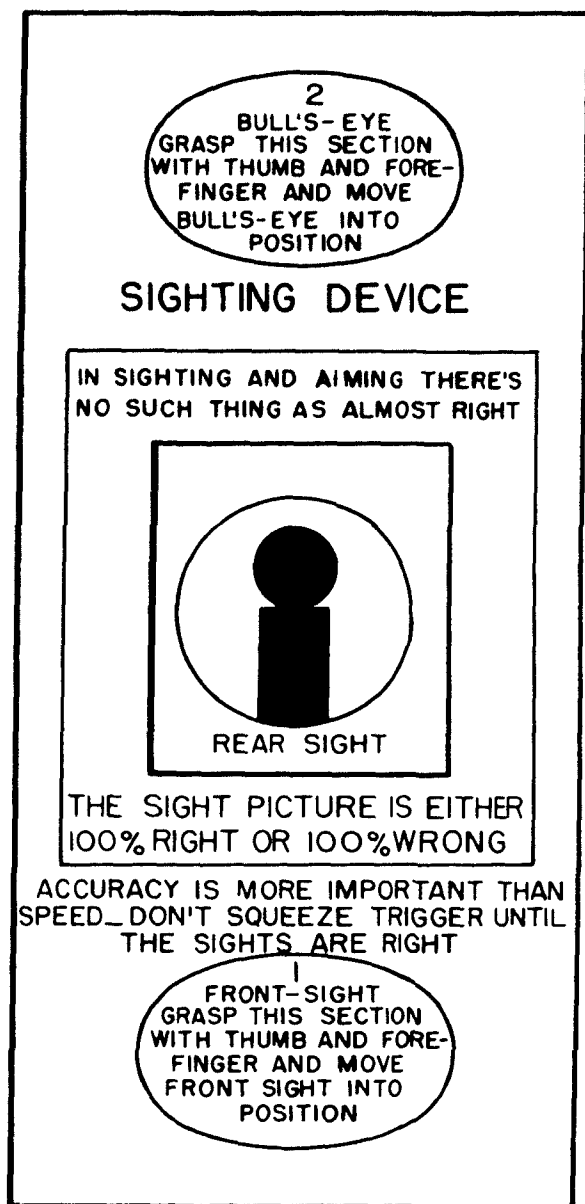
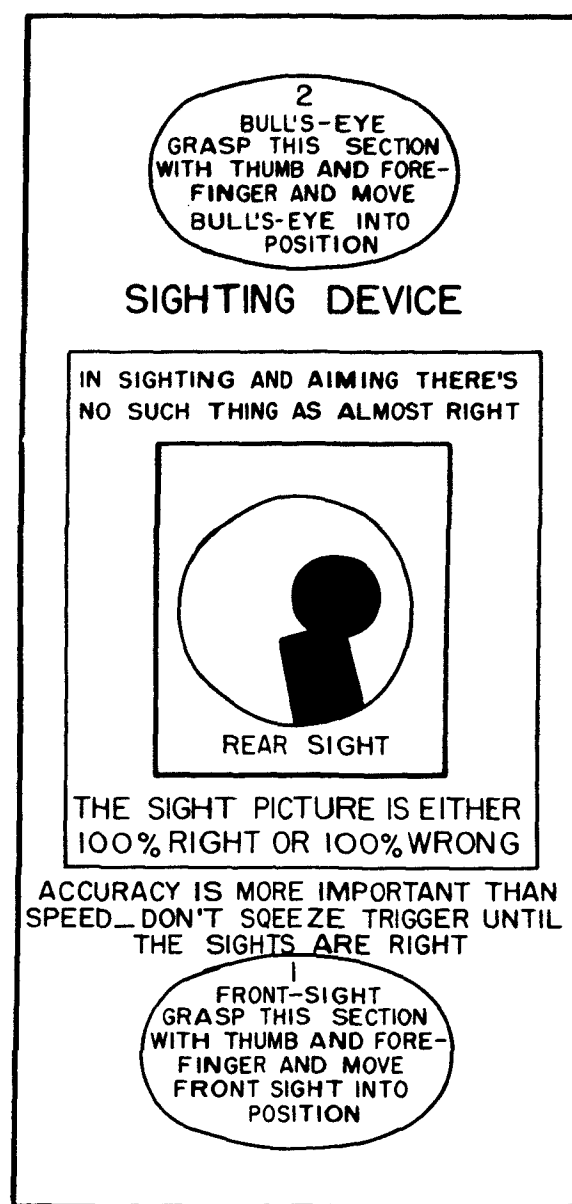


Figure C-2. Aiming

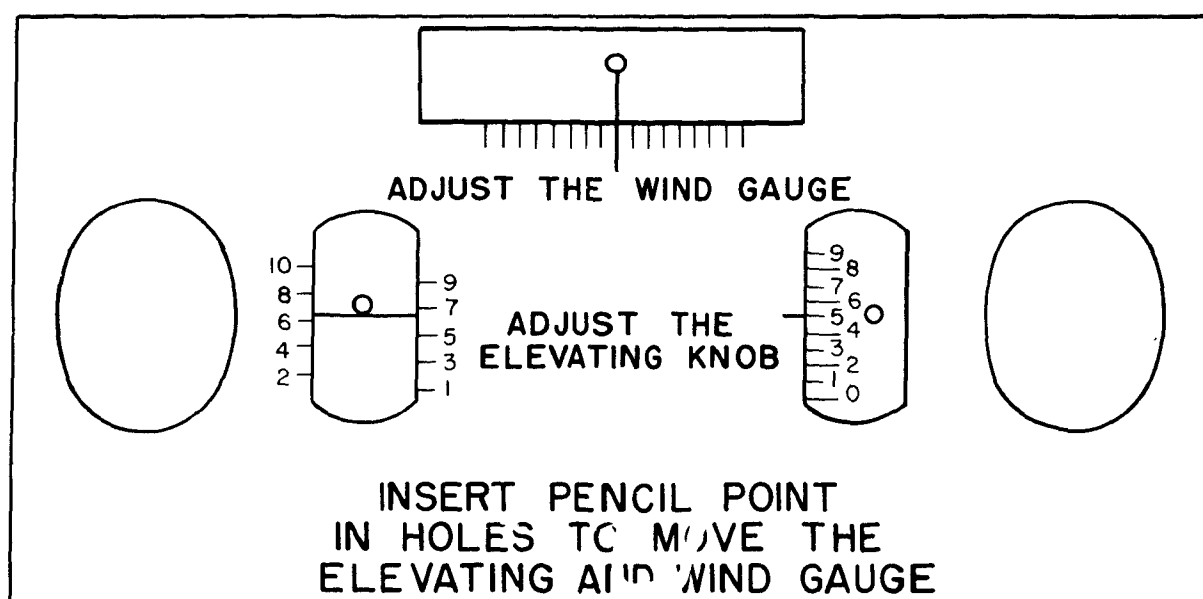


RIGHT



WRONG

FRONT VIEW



REAR VIEW

WE 14026

Figure C-3. Rifle sighting trainer.

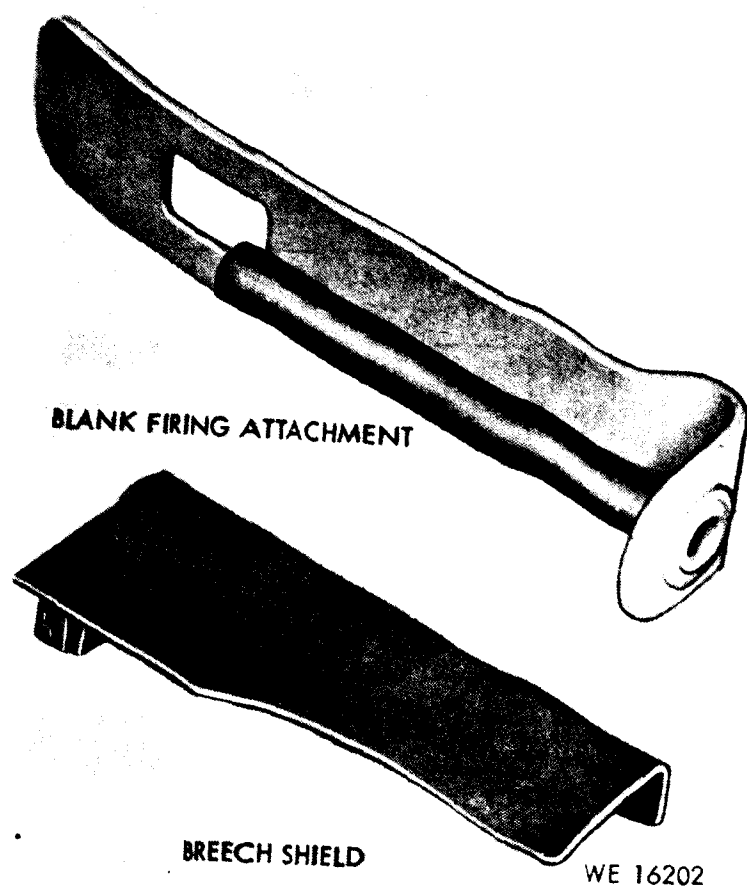
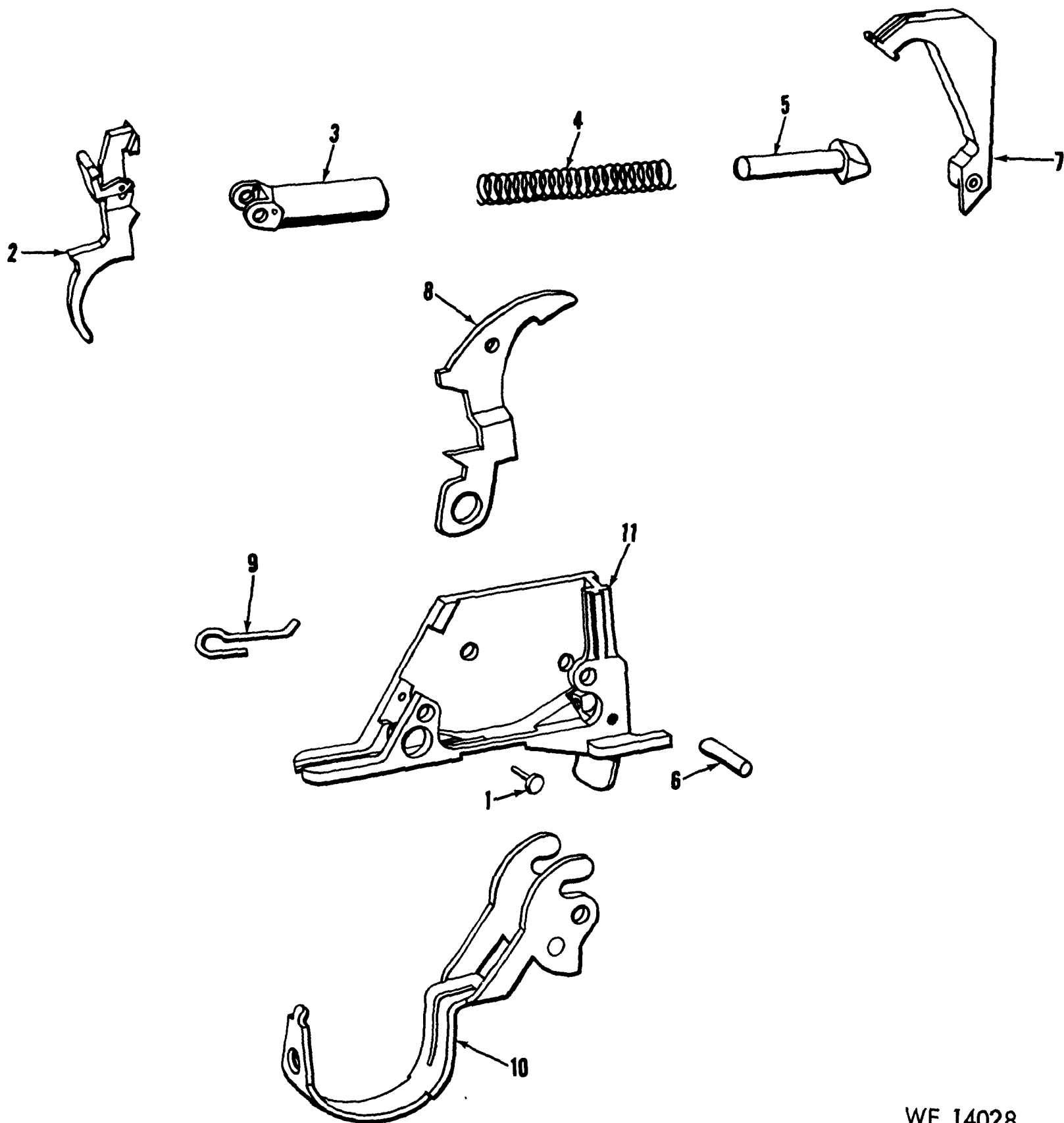


Figure C-4. Blank ammunition firing attachment w/breech shield.

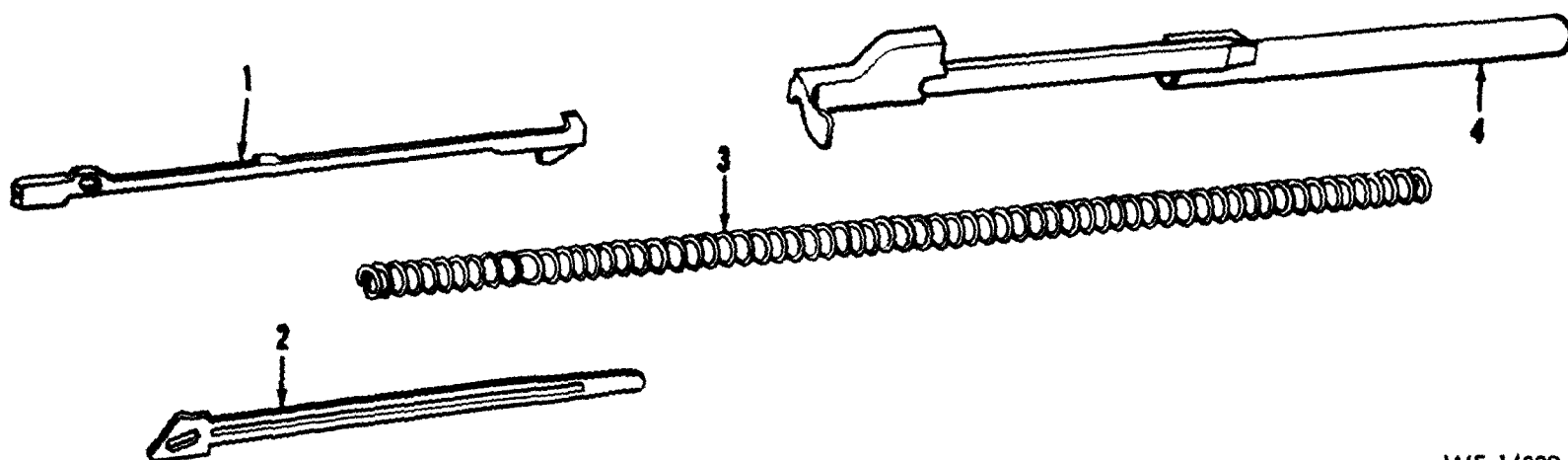


Figure C-5. Tools and equipment.



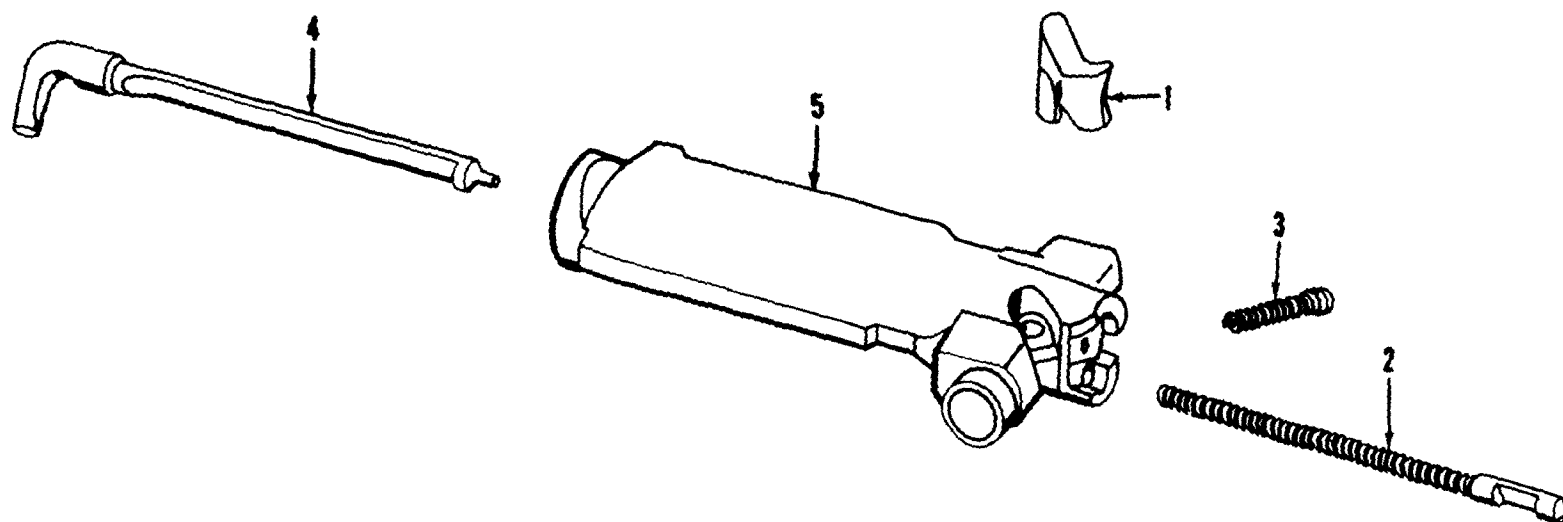
WE 14028

Figure C-6. Firing mechanism - exploded view.



WE 14029

Figure C-7. Operating rod and connector group.



WE 14030

Figure C-8. Bolt assembly - exploded view.

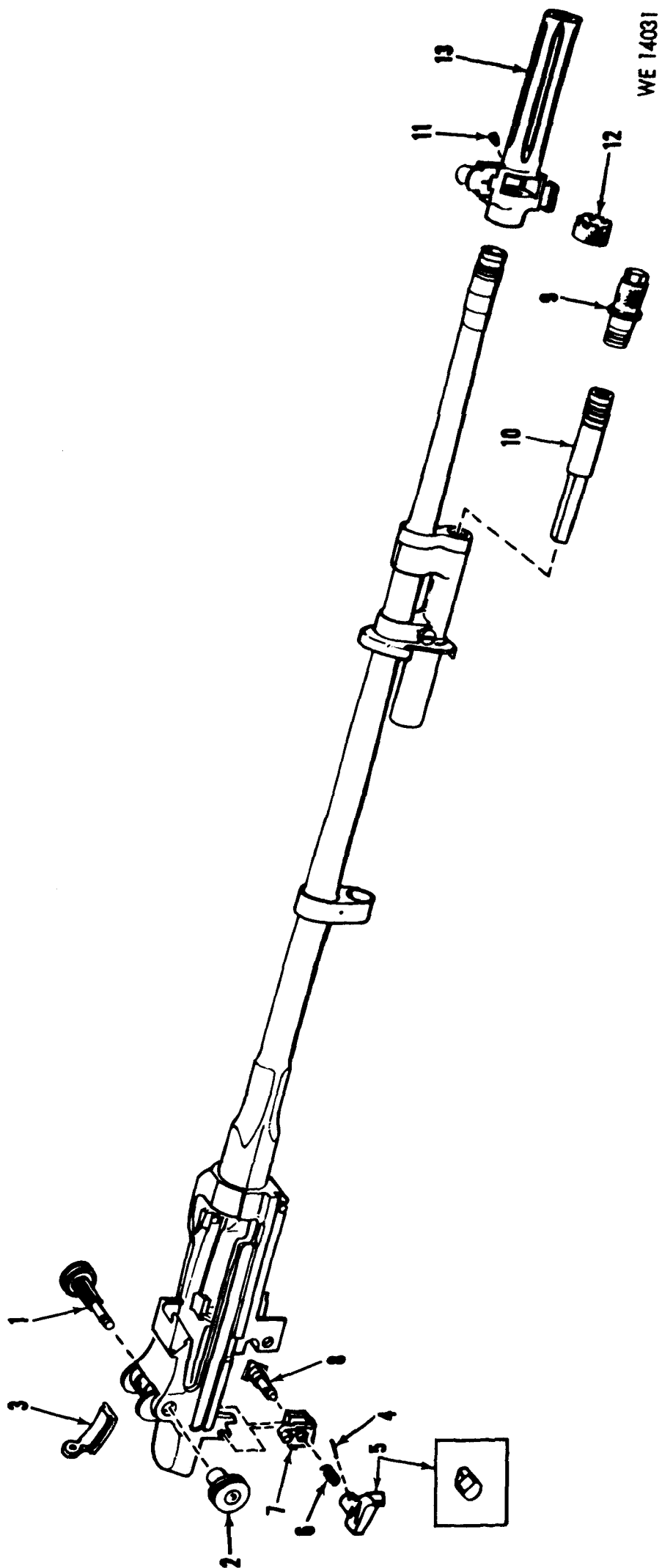


Figure C-9. Barrel and receiver group - partial exploded view

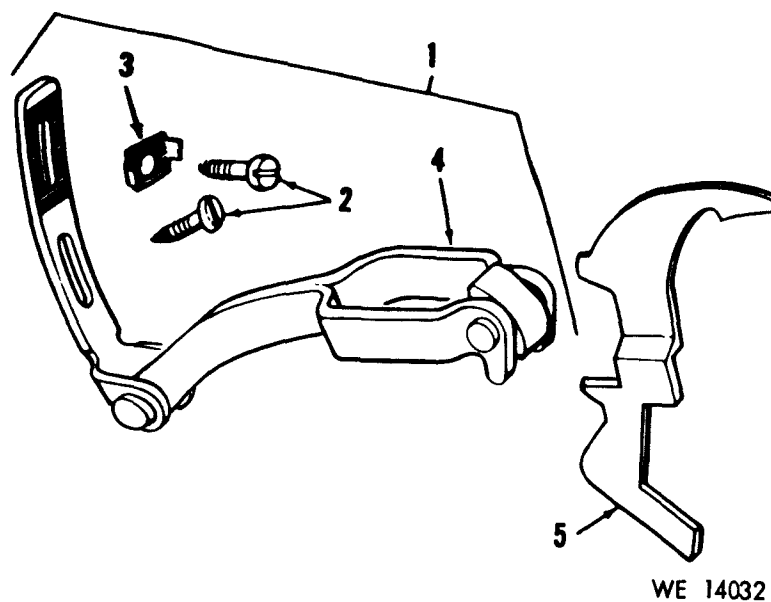


Figure C-10. Winter trigger kit - M14 Rifle - exploded view.

**Section VII. INDEX—FEDERAL STOCK NUMBERS CROSS REFERENCE TO
FIGURE AND ITEM NUMBER**

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1005-556-4174	C-1	7	1005-777-1369	C-10	-
1005-587-8381	C-8	2	1005-778-0580	C-10	5
1005-587-8400	C-9	9	1005-791-3377	C-1	10
1005-587-8408	C-9	5	1005-819-4501	C-6	1
1005-587-8413	C-7	3	1005-856-2108	3-1	4
1005-587-8414	C-6	9		3-2	6
1005-587-8415	C-9	6	1005-893-0902	C-4	-
1005-587-8419	C-6	2	1005-921-5248	C-8	4
1005-587-8420	C-9	5	1005-953-9504	C-8	1
1005-600-8618	C-8	3	1005-999-3399	C-9	1
1005-600-8868	C-9	3	4933-628-9700	C-5	4
1005-600-8887	C-6	4	4933-652-9950	C-5	3
1005-617-4998	C-2	-	4933-690-3497	C-5	2
1005-628-9048	3-1	1	4933-768-0211	C-1	3
	3-2	3	4933-780-1982	C-1	5
1005-650-4510	C-1	2	5305-042-6426	C-9	11
1005-654-4058	C-1	1	5305-990-6435	C-10	2
1005-690-8441	C-1	9	5315-051-6891	C-9	4
1005-711-6202	1-10	-	5315-501-3668	C-6	6
1005-722-8907	C-5	1	5315-597-5086	C-1	4
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By Order of the Secretary of the Army:

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

HAROLD K. JOHNSON,
General, United States Army,
Chief of Staff.

DISTRIBUTION:

To be distributed in accordance with DA Form 12-40, requirements for organizational maintenance applicable to Rifles, 7.62-MM, M14, M14A1 and Bipod, Rifle, M2.